

**Estimated Cleanup Costs for the Coeur d'Alene Basin
Costs Escalated to December 2006 and Pine Creek Costs Excluded
June 8, 2007**

This memorandum was prepared by URS at the request of the U.S. Environmental Protection Agency (EPA) and provides an update of cost estimates prepared for the Feasibility Study (FS) for the Coeur d'Alene Basin Operable Unit 3 (OU3). URS has estimated updated costs for the selected remedies for human health and the Spokane River (as presented in the Record of Decision (ROD)) and the comprehensive ecological remedy (Ecological Alternative 3, as presented in FS Part 3, plus additional areas selected in the ROD).

Costs have been escalated from December 2000¹ to December 2006 using the 20-city average of the construction cost index (CCI) from Engineering News Record (ENR). Direct and indirect capital costs and operations and maintenance (O&M) costs have been escalated using the same factor. The CCI for December 2000 was 6,283; the CCI for December 2006 was 7,888. Thus, the escalation factor is 1.26. All costs have been escalated using this factor except costs for cleanup of yard soil, rights-of-way, commercial properties, and common areas. As described below, current actual costs were used to estimate future costs for cleanup of these properties.

Table 1 shows the estimated escalated costs with Pine Creek cleanup costs excluded. Estimated escalated costs for Pine Creek are shown in a separate column in Table 1.

Human Health Remedy

For the human health remedy, ROD Tables 12.1-11 through 12.1-16 have been updated. Table 1 summarizes the escalated estimated cost of the human health remedy. Costs for residences that have already been cleaned up are not included.

Costs associated with Pine Creek are not always identified separately in the human health FS (FS Part 2) and the ROD. Pine Creek communities are generally included in the Kingston subarea in the FS Part 2. In the following paragraphs, the methods used to estimate the numbers of residences in Pine Creek requiring cleanup for each of the remedy components are described. As shown in FS Part 2, Table A-1, the estimated number of residences in Pine Creek (30) is about 0.6% of the estimated total number of residences in the combined Upper and Lower Basins (5,156). It was assumed that costs for the lead health intervention program and the institutional controls program, together referred to as intervention and information (I&I), would not be affected by the exclusion of Pine Creek.

For yard soil, rights-of-way, commercial properties, and common areas, cleanup costs have been updated based on actual average cleanup costs per property and the current estimate of the remaining number of properties to be cleaned up. These costs represent current costs and have not been escalated. The number of Pine Creek properties was estimated as 0.6% of the total estimated remaining number of properties to be cleaned up (2,744), or 16. Costs for repository construction (including hauling of contaminated soil) and O&M, relocation, drainage upgrades,

¹ The FS costs were estimated using year 2000 costs (FS Part 2, Appendix F, page F-1 and FS Part 3, Section 4.2.4.7.4) and were not escalated in the ROD.

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cleanup of recontamination, and I&I programs are based on the year 2000 estimate and have been escalated. In addition, the costs for repository construction (including hauling of contaminated soil) and O&M have been increased to reflect an increase in the estimated volume of soil that will be disposed of in repositories from 127,226 cubic yards to 572,446 cubic yards. These repository costs have been increased by a factor equal to 4.5 (572,446 divided by 127,226). Escalated estimated costs for yard soil, rights-of-way, commercial properties, and common areas, with Pine Creek excluded, are shown in Table 2.

Escalated estimated costs for cleanup of recreational areas are summarized in Table 3. Because all of the recreational areas are located in the Lower Basin, these costs have not been adjusted for Pine Creek.

For house dust, as described above for yard soil, the number of Pine Creek residences requiring cleanup is estimated to be 3% of the total number of residences requiring cleanup for house dust in the Kingston subarea. The total number of residences requiring cleanup for house dust in the Kingston subarea is 503, and the estimated number of Pine Creek residences requiring cleanup is 16. Escalated estimated costs for house dust, with Pine Creek excluded, are summarized in Table 4.

For drinking water, there is specific information on the numbers of residences needing remedial actions for drinking water in FS Part 2, Table 4-5. There are 2 residences in Pine Creek needing remedial actions for drinking water. Escalated estimated costs for drinking water, with Pine Creek excluded, are summarized in Table 5.

Escalated estimated costs for aquatic food sources remedies are summarized in Table 6. It was assumed that costs for the aquatic food sources remedies would not be affected by the exclusion of Pine Creek.

Ecological Remedy

For the comprehensive ecological remedy, costs have been escalated on a site-by-site basis. Table 1 shows the escalated estimated cost of the comprehensive ecological remedy with costs for Pine Creek excluded. For the Upper Basin, the comprehensive ecological remedy consists of Alternative 3. Escalated estimated costs for the Upper Basin, with costs for Pine Creek excluded, are summarized on a watershed level in Table 7.

For the Upper Basin, the comprehensive ecological remedy consists of Alternative 3 plus additional areas selected in the ROD. This additional areas are:

- Anderson Lake (wetland and lake areas)
- Bare Marsh
- Cave Lake (wetland and lake areas)

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- Existing agricultural land for conversion to waterfowl feeding areas

Escalated estimated costs for the Lower Basin are summarized in Table 8.

Site-by-site costs for the Upper Basin are presented for the Upper South Fork, Canyon Creek, Ninemile Creek, Big Creek, Moon Creek, and South Fork watersheds in Tables 9 through 14, respectively.

Spokane River

For the Spokane River, the selected remedy in the ROD identifies a combination of Alternatives 3, 4, and 5. A lower bound and an upper bound estimate were presented in the ROD. The escalated estimated costs for the Spokane River are presented in Table 15. It was assumed the estimated costs are not affected by the exclusion of Pine Creek.

Basinwide Monitoring

Estimated O&M costs are shown, as appropriate, for the various components of the remedy. However, EPA is also implementing a basinwide monitoring program to assess the cumulative effectiveness of the remedy components. The cost of this program is not included in the estimated O&M costs for the various remedy components. The estimated cost for 30 years of basinwide monitoring that is presented in the ROD is \$9 million. The escalated estimated cost for the basinwide monitoring program is shown in Table 1.

Indirect (Non-Construction) Remedy Costs

The estimated remedy costs include direct capital costs (i.e., construction costs), indirect capital costs (i.e., non-construction capital costs and contingency), and O&M costs.

EPA guidance for developing FS cost estimates (EPA 2000) lists elements that may be included under non-construction costs and provides typical cost ranges of these elements as percentages of the direct capital cost. The low end of the range typically corresponds to projects with direct capital costs exceeding \$10 million, and the high end of the range typically corresponds to projects with direct capital costs less than \$100 thousand. Typical non-construction cost ranges are:

- Project management: 5% to 10%
- Remedial design: 6% to 20%
- Construction management: 6% to 15%

The elements of non-construction costs and typical cost ranges are summarized in Table 16.

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Indirect costs included in the estimated costs varied between the remedy components. Indirect capital costs for the ecological and Spokane River alternatives included non-construction costs equal to 30% of direct capital costs and contingency equal to 30% of direct capital costs.²

Non-construction costs for the yard soil and house dust remedies as a percentage of the direct capital cost included 10% for mobilization, 10% for administration, and 30% for contingency. Non-construction costs for the recreational areas remedy as a percentage of the direct capital cost included 15% for mobilization, 10% for administration, and 30% for contingency. Non-construction costs for the drinking water remedy as a percentage of the direct capital cost included 10% for mobilization, 10% for administration, and 10% to 30% for contingency (varied depending on the remedial measure selected).

The indirect costs generally do not include costs that may be incurred by the EPA for administration of the remedy implementation.

References

U.S. Environmental Protection Agency (EPA). 2002. *Record of Decision. The Bunker Hill Mining and Metallurgical Complex, Operable Unit 3*. September.

_____. 2001. *Final (Revision 2). Feasibility Study Report. Coeur d'Alene Basin Remedial Investigation/Feasibility Study*. Prepared by URS Greiner, CH2M Hill, and White Shield, Inc. for EPA Region 10. October.

_____. 2000. *A Guide to Developing and Documenting Cost Estimates During the Feasibility Study*. EPA Document No. 540-R-00-002. Prepared by the U.S. Army Corps of Engineers and the EPA Office of Emergency and Remedial Response. July.

² For the ecological and Spokane River alternatives, non-construction costs were defined to also include general requirements (e.g., mobilization and demobilization, temporary facilities, bonds, and insurance). For the Spokane River alternatives, indirect costs were not included for offsite disposal fees.

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Table 1. Overall Cost Summary

| Remedy Component | Alternative | Total Estimated Present Worth Cost | | |
|--|-------------------------------|------------------------------------|---------------------------------|-----------------------|
| | | ROD/FS ² | Escalated, excluding Pine Creek | Escalated, Pine Creek |
| Human Health Remedy | | | | |
| Soil (Yard Soil, House Dust, Rights-of-Way, Commercial Properties, Common Use Areas, and Recreation Areas) | S4 and D3 | \$89,000,000 | \$142,000,000 | \$639,000 |
| Drinking Water | W6 | \$2,200,000 | \$2,900,000 | \$22,000 |
| Aquatic Food Sources | F3 | \$920,000 | \$1,100,000 | \$0 |
| Subtotal, Human Health Remedy | | \$92,000,000 | \$146,000,000 | \$660,000 |
| Ecological Comprehensive Remedy | | | | |
| Upper Basin | 3 | \$560,000,000 | \$654,000,000 | \$53,000,000 |
| Lower Basin | 3 + areas selected in the ROD | \$712,000,000 | \$937,000,000 | \$0 |
| Subtotal, Ecological Comprehensive Remedy | | \$1,272,000,000 | \$1,591,000,000 | \$53,000,000 |
| Spokane River Remedy | Combination of 3, 4, and 5 | | | |
| Lower Bound | | \$4,500,000 | \$5,700,000 | \$0 |
| Upper Bound | | \$11,000,000 | \$13,300,000 | \$0 |
| Basinwide Monitoring | | \$9,000,000 | \$11,300,000 | \$0 |
| Total ¹ | | \$1,384,000,000 | \$1,762,000,000 | \$54,000,000 |

¹Totals include upper bound estimate for the Spokane River. Costs are rounded to the nearest one million dollars.

²Costs listed for the human health and Spokane River remedies are from the ROD; costs for ecological remedy are from the FS, Part 3.

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Table 2. Estimated Costs for Yard Soil, Rights of Way, Commercial Properties, and Community Areas

| Area | Total No. of Properties to Remediate ¹ | Total No. of Properties to Remediate Excluding Pine Creek ¹ | Estimated Cost per Property ² | Subtotal Estimated Property Remediation Cost | Contingency (30% of Remediation Subtotal) | Administration (10% of Remediation Subtotal) | Total Soil Remediation | Escalated Repository Cost ³ | Escalated Relocation Cost ⁴ | Escalated Cost for Drainage Upgrades ⁴ | Escalated Cost for Recontamination ⁴ | Total |
|---|---|--|--|--|---|--|------------------------|--|--|---|---|----------------|
| Combined Upper and Lower Basins | 2,744 | 2,728 | \$ 27,000 | \$ 73,656,000 | \$ 22,096,800 | \$ 7,365,600 | \$ 103,118,400 | \$ 13,253,556 | \$ 4,252,500 | \$ 1,220,862 | \$ 4,033,836 | \$ 125,879,153 |
| Information and Intervention ⁵ | | | | | | | | | | | | \$ 2,105,208 |
| Repository O&M ⁶ | | | | | | | | | | | | \$ 713,277 |
| Totals | | | | | | | | | | | | \$ 128,697,638 |

¹Total estimated number of properties to remediate and disposal quantity is based on Oct 2006 Terragraphics memo as adjusted by EPA to account for yards remediated through the end of 2006. Number of Pine Creek properties to remediate (16) was estimated as the ratio of the number of residences in Pine Creek (30) to the total estimated number of residences (5,156), as presented in FS Part 2, multiplied by the total estimated number of properties to remediate.

²Based on actual cleanup costs. These costs are current costs and not escalated.

³Includes respository construction and hauling costs as well as O&M (PW(30,7%)) to operate 6 repostiories for 10 years. FS estimate for repositories was based on a total disposal quantity of 127,226 CY. Current estimate is 572,446 CY. Repository construction, haul, and O&M costs were extrapolated based on increased volume.

⁴FS/ROD estimated cost escalated from 2000 to December 2006.

⁵Includes 35% of basin-wide Lead Health Intervention Program and 50% of basin-wide Institutional Controls Program for yard soil and 6% of basin-wide Lead Health Intervention Program and 20% of basin-wide Institutional Controls Program for rights of way, commercial properties, and community areas. Total present worth of Lead Health Intervention Program is \$2,880,000 escalated to \$3,629,000, and total present worth of Institutional Controls Program is \$700,000 escalated to \$882,000.

⁶O&M for keeping one Upper Basin and one Lower Basin repositories open for 20 years. Cost was extrapolated based on increase in volume of soil disposed from 127,226 cubic yards to 572,446 cubic yards.

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Table 3. Estimated Costs for Recreational Areas

| Recreation Area | Escalated Present Worth Capital Cost | Escalated Present Worth of O&M | Escalated Estimated Total Present Worth Cost |
|---|--|--------------------------------------|---|
| Skeel Gulch Beach | \$221,760 | \$20,790 | \$242,550 |
| South of Old Mision State Park | \$221,760 | \$20,790 | \$242,550 |
| Old Mision State Park Boat Launch | \$221,760 | \$20,790 | \$242,550 |
| Beach in Mission Flats | \$221,760 | \$20,790 | \$242,550 |
| South of Mission Flats | \$221,760 | \$20,790 | \$242,550 |
| Mouth of 4th of July Marsh | \$221,760 | \$20,790 | \$242,550 |
| Bull Run Peak Beach | \$221,760 | \$20,790 | \$242,550 |
| Rose Lake Access Area (includes East of Rose Lake and West of Rose Lake) | \$321,048 | \$105,210 | \$426,258 |
| East of Blackrock Gulch Marsh | \$221,760 | \$20,790 | \$242,550 |
| Beach Upstream from Quarry | \$221,760 | \$20,790 | \$242,550 |
| Quarry Beach | \$221,760 | \$20,790 | \$242,550 |
| RV Park across from Blackrock Gulch | \$221,760 | \$20,790 | \$242,550 |
| Blackrock Gulch Beach | \$221,760 | \$20,790 | \$242,550 |
| Beach below Ward Ridge | \$221,760 | \$20,790 | \$242,550 |
| Near East End of Killarney Lake | \$221,760 | \$20,790 | \$242,550 |
| Lane Beach | \$221,760 | \$20,790 | \$242,550 |
| Killarney Lake Boat Launch | \$221,760 | \$20,790 | \$242,550 |
| Beach near Canal to Killarney Lake | \$221,760 | \$20,790 | \$242,550 |
| RM 145 | \$221,760 | \$20,790 | \$242,550 |
| Medimont (includes Boat Ramp, West Beach, and Hill Camping Area) | \$293,958 | \$95,760 | \$389,718 |
| Rainy Hill (includes Fishing Area and Picnic Area) | \$293,958 | \$95,760 | \$389,718 |
| West of Blue Lake | \$221,760 | \$20,790 | \$242,550 |
| RM 135 Long Beach/Springston | \$221,760 | \$20,790 | \$242,550 |
| Across River from Springston | \$221,760 | \$20,790 | \$242,550 |
| Springston Beach Site | \$180,936 | \$59,220 | \$240,156 |
| Thompson Lake | \$273,798 | \$90,720 | \$364,518 |
| Trestle Area next to Route 97 | \$221,760 | \$20,790 | \$242,550 |
| Information and Intervention | \$306,180 | \$0 | \$306,180 |
| Total Estimated Present Worth Cost for Recreation Areas | \$6,500,000 | \$900,000 | \$7,500,000 |

Note

Total costs rounded to nearest \$100,000

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Table 4. Estimated Costs for House Dust

| Area | Total Number of Residences | Adjusted Number of Residences Affected | Direct Cost ^{a,b} | Mobilization 10% | Admin. 10% | Contingency 30% | Total Present Worth Cost ^c |
|---|----------------------------|--|----------------------------|-------------------|-------------------|-------------------|---------------------------------------|
| Information and Intervention and Vacuum Loan Program/Dust Mats | | | | | | | |
| Lower Basin | 1,642 | 575 | \$ 43,470 | \$ 4,347 | \$ 4,782 | \$ 15,780 | \$ 68,378 |
| Upper Basin | 4,633 | 3,164 | \$ 239,198 | \$ 23,920 | \$ 26,312 | \$ 86,829 | \$ 376,259 |
| Subtotal | 6,275 | 3,739 | \$ 282,668 | \$ 28,267 | \$ 31,094 | \$ 102,609 | \$ 444,637 |
| Real-Time Monitoring Equipment | | | | | | | \$ 9,324 |
| Vacuum Loan Program | | | | | | | \$ 20,160 |
| 35% of Lead Health Intervention program costs. NPV for 15 years, 7% | | | | | | | \$ 1,270,080 |
| Subtotal, Information and Intervention and Vacuum Loan Program/Dust Mats | | | | | | | \$ 1,745,000 |
| Interior Source Removal/More Extensive Cleaning | | | | | | | |
| Lower Basin | 1,642 | 39 | \$ 348,894 | \$ 34,889 | \$ 38,378 | \$ 126,649 | \$ 548,810 |
| Upper Basin | 4,633 | 226 | \$ 2,021,796 | \$ 202,180 | \$ 222,398 | \$ 733,912 | \$ 3,180,285 |
| Subtotal | 6,275 | 265 | \$ 2,370,690 | \$ 237,069 | \$ 260,776 | \$ 860,560 | \$ 3,729,095 |
| Subtotal, Interior Source Removal/More Extensive Cleaning | | | | | | | \$ 3,729,000 |
| Total Estimated Cost for House Dust | | | | | | | \$ 5,474,000 |

^a Direct Cost for Information and Intervention and Vacuum Loan Program/Dust Mats = Number of residences affected times estimated cost for dust mats (\$20) and testing (\$40) for a total of \$60 per residence, escalated to 2006 costs (\$76 per residence) . Testing costs assume sampling once per year for 5 years, every other year to 10 years, and only 1/5 of the total costs shared with other options.

^b Direct Cost for Interior Source Removal/More Extensive Cleaning = The average of the average cost per house for HUD cleaning (\$9,609) and the average cost per house for commercial cleaning (\$4,548) as described in the *Interim Data Summary Report for Pre- and Post-Cleaning Results House Dust Pilot Project 2000* , prepared for the Idaho State Department of Environmental Quality by TerraGraphics Environmental Engineering, Inc., May 2001, escalated to 2006 costs (\$7,100 per residence escalated to \$8,946 per residence).

^c Total Cost = Direct Cost (D) + Mobilization (M) + Administrative (A) + Contingency (Co). M = D times 10%. A = (D+M) times 10%. Co = (D+M+A) times 30%.

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Table 5. Estimated Costs for Drinking Water

| Area | Inside or Outside Water District | Estimated Number of Residences (Pine Creek Excluded) | Estimated Present Worth Capital Cost | Estimated Present Worth O&M Cost | Estimated Total Present Worth Cost |
|---|---|---|---|---|---|
| Upper Basin | Inside ^a | 3 | \$27,972 | \$0 | \$27,972 |
| | Outside ^b | 8 | \$48,635 | \$43,003 | \$91,637 |
| Lower Basin (includes Kingston subarea) | Inside ^a | 76 | \$708,624 | \$0 | \$708,624 |
| | Outside ^c | 79 | \$1,443,330 | \$92,647 | \$1,535,977 |
| Information and intervention ^d | | | \$541,800 | \$0 | \$541,800 |
| Total | | 166 | \$2,770,000 | \$136,000 | \$2,906,000 |

Notes:

Total costs rounded to nearest \$1,000.

^a Estimated costs based on connection to existing public water supply system.

^b Estimated costs based on point-of-use treatment.

^c Estimated costs based on installation of new drinking water supply well.

^d Assumed to be 12% of the basinwide present worth information and intervention costs.

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Table 6. Estimated Costs for Aquatic Food Sources

| Description | Estimated Present Worth Cost (2000) | Escalated Estimated Total Present Worth Cost |
|---|--|---|
| Lead Health Intervention Program ^a | \$230,000 | \$290,000 |
| Labor/Equipment/Materials ^b | \$310,000 | \$391,000 |
| Fish Sampling ^c | \$370,000 | \$466,000 |
| TOTAL | \$910,000 | \$1,147,000 |

^a Estimated as 8% of the total present worth cost of the Lead Health Intervention Program (\$2,880,000 in year 2000 dollars)

^b Estimated as \$25,000 (year 2000 dollars) annually for 30 years

^c Estimated as \$250,000 in year 0, \$100,000 in year 5, and \$100,000 in year 10 (year 2000 dollars).

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Table 7. Summary of Estimated Costs for Upper Basin Ecological Alternative 3

| Watershed | Escalated Direct Capital | Escalated Indirect Capital | Escalated O&M | Escalated Total |
|------------------------------------|---------------------------------|-----------------------------------|--------------------------|------------------------|
| Upper South Fork | \$65,000,000 | \$39,000,000 | \$11,000,000 | \$115,000,000 |
| Canyon Creek | \$84,000,000 | \$51,000,000 | \$49,000,000 | \$184,000,000 |
| Ninemile Creek | \$42,000,000 | \$25,000,000 | \$7,300,000 | \$74,000,000 |
| Big Creek | \$21,000,000 | \$13,000,000 | \$3,400,000 | \$37,000,000 |
| Moon Creek | \$2,400,000 | \$1,400,000 | \$600,000 | \$4,400,000 |
| South Fork | \$130,000,000 | \$79,000,000 | \$31,000,000 | \$240,000,000 |
| Total, excluding Pine Creek | \$344,000,000 | \$208,000,000 | \$102,000,000 | \$654,000,000 |
| Pine Creek | \$30,000,000 | \$18,000,000 | \$4,900,000 | \$53,000,000 |

Note: Costs are rounded to the nearest one million dollars, or two significant figures for costs less than \$10 million

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Table 8. Summary of Estimated Costs for the Comprehensive Ecological Remedy in the Lower Basin
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| Area | Description | TCD | Typical Conceptual Design | Quantity | Units | Unit Cost | Escalated Unit Cost (2006) | Escalated Direct Cost | Escalated Indirect Cost | Escalated O&M Cost | Escalated Total Present Worth Cost |
|--------------------------------|-------------------|----------|--|------------|-------|-----------|----------------------------|-----------------------|-------------------------|--------------------|------------------------------------|
| River Bed | Sediment Bed Load | Lb-4b | Dredge and pipeline | 17,599,021 | cy | \$7.59 | \$ 9.56 | \$ 168,306,477 | \$ 100,983,886 | \$ - | \$ 269,290,364 |
| | Sediment Bed Load | LB-3b | Subaqueous disposal | 17,599,021 | cy | \$6.20 | \$ 7.81 | \$ 137,483,552 | \$ 82,490,131 | \$ 27,496,710 | \$ 247,470,394 |
| Delta | Sediment- Delta | Lb-4b | Dredge and pipeline | 3,000,000 | cy | \$7.59 | \$ 9.56 | \$ 28,690,200 | \$ 17,214,120 | \$ - | \$ 45,904,320 |
| | Sediment- Delta | LB-3b | Subaqueous disposal | 3,000,000 | cy | \$6.20 | \$ 7.81 | \$ 23,436,000 | \$ 14,061,600 | \$ 4,687,200 | \$ 42,184,800 |
| River Banks | Bank Wedge | LB-1 | Excavate CDR banks (barge-based excavator) | 1,775,919 | cy | \$4.92 | \$ 6.20 | \$ 11,009,277 | \$ 6,605,566 | \$ - | \$ 17,614,843 |
| | Bank Wedge | HAUL-1 | Haul 10 miles one-way | 1,775,919 | cy | \$8.90 | \$ 11.21 | \$ 19,915,156 | \$ 11,949,093 | \$ - | \$ 31,864,249 |
| | Bank Wedge | C-8 | Regional repository | 1,775,919 | cy | \$10.31 | \$ 12.99 | \$ 23,070,253 | \$ 13,842,152 | \$ 4,614,051 | \$ 41,526,456 |
| | Bank Wedge | VBS-AVG | Vegetative bank stabilization (average cost) | 174,175 | lf | \$36.00 | \$ 45.36 | \$ 7,900,578 | \$ 4,740,347 | \$ 1,580,116 | \$ 14,221,040 |
| | Bank Wedge | BSRB-AVG | Bank stabilization via revetments (average cost) | 86,713 | lf | \$83.00 | \$ 104.58 | \$ 9,068,446 | \$ 5,441,067 | \$ 1,813,689 | \$ 16,323,202 |
| | Bank Wedge | FP/RP-1A | Floodplain/riparian replanting | 26,043,800 | sf | \$0.39 | \$ 0.49 | \$ 12,797,923 | \$ 7,678,754 | \$ 2,559,585 | \$ 23,036,262 |
| Strobl Marsh | Wetland Sediment | C-1 | Excavation (land-based trackhoe) | 32,267 | cy | \$2.70 | \$ 3.40 | \$ 109,772 | \$ 65,863 | \$ - | \$ 175,636 |
| | Wetland Sediment | HAUL-1 | Haul 10 miles one-way | 32,267 | cy | \$8.90 | \$ 11.21 | \$ 361,842 | \$ 217,105 | \$ - | \$ 578,947 |
| | Wetland Sediment | C-8 | Regional repository | 32,267 | cy | \$10.31 | \$ 12.99 | \$ 419,168 | \$ 251,501 | \$ 83,834 | \$ 754,502 |
| | Wetland Sediment | LB-8 | Place sand cap | 359,093 | cy | \$8.02 | \$ 10.11 | \$ 3,628,707 | \$ 2,177,224 | \$ 725,741 | \$ 6,531,672 |
| Campbell Marsh | Wetland Sediment | C-1 | Excavation (land-based trackhoe) | 32,267 | cy | \$2.70 | \$ 3.40 | \$ 109,772 | \$ 65,863 | \$ - | \$ 175,636 |
| | Wetland Sediment | HAUL-1 | Haul 10 miles one-way | 32,267 | cy | \$8.90 | \$ 11.21 | \$ 361,842 | \$ 217,105 | \$ - | \$ 578,947 |
| | Wetland Sediment | C-8 | Regional repository | 32,267 | cy | \$10.31 | \$ 12.99 | \$ 419,168 | \$ 251,501 | \$ 83,834 | \$ 754,502 |
| | Wetland Sediment | LB-8 | Place sand cap | 393,653 | cy | \$8.02 | \$ 10.11 | \$ 3,977,942 | \$ 2,386,765 | \$ 795,588 | \$ 7,160,296 |
| Orling Slough | Wetland Sediment | C-1 | Excavation (land-based trackhoe) | 16,133 | cy | \$2.70 | \$ 3.40 | \$ 54,884 | \$ 32,931 | \$ - | \$ 87,815 |
| | Wetland Sediment | HAUL-1 | Haul 10 miles one-way | 16,133 | cy | \$8.90 | \$ 11.21 | \$ 180,915 | \$ 108,549 | \$ - | \$ 289,465 |
| | Wetland Sediment | C-8 | Regional repository | 16,133 | cy | \$10.31 | \$ 12.99 | \$ 209,577 | \$ 125,746 | \$ 41,915 | \$ 377,239 |
| | Wetland Sediment | LB-8 | Place sand cap | 46,787 | cy | \$8.02 | \$ 10.11 | \$ 472,792 | \$ 283,675 | \$ 94,558 | \$ 851,026 |
| Hidden Marsh | Wetland Sediment | C-1 | Excavation (land-based trackhoe) | 80,667 | cy | \$2.70 | \$ 3.40 | \$ 274,429 | \$ 164,657 | \$ - | \$ 439,087 |
| | Wetland Sediment | HAUL-1 | Haul 10 miles one-way | 80,667 | cy | \$8.90 | \$ 11.21 | \$ 904,600 | \$ 542,760 | \$ - | \$ 1,447,360 |
| | Wetland Sediment | C-8 | Regional repository | 80,667 | cy | \$10.31 | \$ 12.99 | \$ 1,047,913 | \$ 628,748 | \$ 209,583 | \$ 1,886,243 |
| | Wetland Sediment | LB-8 | Place sand cap | 777,627 | cy | \$8.02 | \$ 10.11 | \$ 7,858,076 | \$ 4,714,846 | \$ 1,571,615 | \$ 14,144,537 |
| Moffit Slough | Wetland Sediment | C-1 | Excavation (land-based trackhoe) | 32,267 | cy | \$2.70 | \$ 3.40 | \$ 109,772 | \$ 65,863 | \$ - | \$ 175,636 |
| | Wetland Sediment | HAUL-1 | Haul 10 miles one-way | 32,267 | cy | \$8.90 | \$ 11.21 | \$ 361,842 | \$ 217,105 | \$ - | \$ 578,947 |
| | Wetland Sediment | C-8 | Regional repository | 32,267 | cy | \$10.31 | \$ 12.99 | \$ 419,168 | \$ 251,501 | \$ 83,834 | \$ 754,502 |
| | Wetland Sediment | LB-8 | Place sand cap | 325,893 | cy | \$8.02 | \$ 10.11 | \$ 3,293,214 | \$ 1,975,928 | \$ 658,643 | \$ 5,927,785 |
| Thompson Marsh | Wetland Sediment | C-1 | Excavation (land-based trackhoe) | 16,133 | cy | \$2.70 | \$ 3.40 | \$ 54,884 | \$ 32,931 | \$ - | \$ 87,815 |
| | Wetland Sediment | HAUL-1 | Haul 10 miles one-way | 16,133 | cy | \$8.90 | \$ 11.21 | \$ 180,915 | \$ 108,549 | \$ - | \$ 289,465 |
| | Wetland Sediment | C-8 | Regional repository | 16,133 | cy | \$10.31 | \$ 12.99 | \$ 209,577 | \$ 125,746 | \$ 41,915 | \$ 377,239 |
| | Wetland Sediment | LB-8 | Place sand cap | 51,627 | cy | \$8.02 | \$ 10.11 | \$ 521,701 | \$ 313,021 | \$ 104,340 | \$ 939,062 |
| Lane Marsh | Wetland Sediment | C-1 | Excavation (land-based trackhoe) | 48,400 | cy | \$2.70 | \$ 3.40 | \$ 164,657 | \$ 98,794 | \$ - | \$ 263,451 |
| | Wetland Sediment | HAUL-1 | Haul 10 miles one-way | 48,400 | cy | \$8.90 | \$ 11.21 | \$ 542,758 | \$ 325,655 | \$ - | \$ 868,412 |
| | Wetland Sediment | C-8 | Regional repository | 48,400 | cy | \$10.31 | \$ 12.99 | \$ 628,745 | \$ 377,247 | \$ 125,749 | \$ 1,131,741 |
| | Wetland Sediment | LB-8 | Place sand cap | 471,093 | cy | \$8.02 | \$ 10.11 | \$ 4,760,489 | \$ 2,856,293 | \$ 952,098 | \$ 8,568,880 |
| Thompson Marsh (wetland areas) | Wetland Sediment | C-1 | Excavation (land-based trackhoe) | 48,400 | cy | \$2.70 | \$ 3.40 | \$ 164,657 | \$ 98,794 | \$ - | \$ 263,451 |
| | Wetland Sediment | HAUL-1 | Haul 10 miles one-way | 48,400 | cy | \$8.90 | \$ 11.21 | \$ 542,758 | \$ 325,655 | \$ - | \$ 868,412 |
| | Wetland Sediment | C-8 | Regional repository | 48,400 | cy | \$10.31 | \$ 12.99 | \$ 628,745 | \$ 377,247 | \$ 125,749 | \$ 1,131,741 |
| | Wetland Sediment | LB-8 | Place sand cap | 438,827 | cy | \$8.02 | \$ 10.11 | \$ 4,434,435 | \$ 2,660,661 | \$ 886,887 | \$ 7,981,982 |
| Killarney Lake (wetland areas) | Wetland Sediment | C-1 | Excavation (land-based trackhoe) | 32,267 | cy | \$2.70 | \$ 3.40 | \$ 109,772 | \$ 65,863 | \$ - | \$ 175,636 |
| | Wetland Sediment | HAUL-1 | Haul 10 miles one-way | 32,267 | cy | \$8.90 | \$ 11.21 | \$ 361,842 | \$ 217,105 | \$ - | \$ 578,947 |
| | Wetland Sediment | C-8 | Regional repository | 32,267 | cy | \$10.31 | \$ 12.99 | \$ 419,168 | \$ 251,501 | \$ 83,834 | \$ 754,502 |
| | Wetland Sediment | LB-8 | Place sand cap | 262,973 | cy | \$8.02 | \$ 10.11 | \$ 2,657,395 | \$ 1,594,437 | \$ 531,479 | \$ 4,783,311 |

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Table 8. Summary of Estimated Costs for the Comprehensive Ecological Remedy in the Lower Basin

Page 2 of 2

| Area | Description | TCD | Typical Conceptual Design | Quantity | Units | Unit Cost | Escalated Unit Cost (2006) | Escalated Direct Cost | Escalated Indirect Cost | Escalated O&M Cost | Escalated Total Present Worth Cost |
|-------------------------------|----------------------|---------|-----------------------------------|----------|-------|-------------|----------------------------|-----------------------|-------------------------|----------------------|------------------------------------|
| Swan Lake (wetland areas) | Wetland Sediment | C-1 | Excavation (land-based trackhoe) | 64,533 | cy | \$2.70 | \$ 3.40 | \$ 219,541 | \$ 131,725 | \$ - | \$ 351,266 |
| | Wetland Sediment | HAUL-1 | Haul 10 miles one-way | 64,533 | cy | \$8.90 | \$ 11.21 | \$ 723,673 | \$ 434,204 | \$ - | \$ 1,157,877 |
| | Wetland Sediment | C-8 | Regional repository | 64,533 | cy | \$10.31 | \$ 12.99 | \$ 838,322 | \$ 502,993 | \$ 167,664 | \$ 1,508,980 |
| | Wetland Sediment | LB-8 | Place sand cap | 635,653 | cy | \$8.02 | \$ 10.11 | \$ 6,423,401 | \$ 3,854,040 | \$ 1,284,680 | \$ 11,562,121 |
| Medicine Lake (wetland areas) | Wetland Sediment | C-1 | Excavation (land-based trackhoe) | 32,267 | cy | \$2.70 | \$ 3.40 | \$ 109,772 | \$ 65,863 | \$ - | \$ 175,636 |
| | Wetland Sediment | HAUL-1 | Haul 10 miles one-way | 32,267 | cy | \$8.90 | \$ 11.21 | \$ 361,842 | \$ 217,105 | \$ - | \$ 578,947 |
| | Wetland Sediment | C-8 | Regional repository | 32,267 | cy | \$10.31 | \$ 12.99 | \$ 419,168 | \$ 251,501 | \$ 83,834 | \$ 754,502 |
| | Wetland Sediment | LB-8 | Place sand cap | 285,560 | cy | \$8.02 | \$ 10.11 | \$ 2,885,641 | \$ 1,731,385 | \$ 577,128 | \$ 5,194,154 |
| Anderson Lake (wetland areas) | Wetland Sediment | C-1 | Excavation (land-based trackhoe) | 16,000 | cy | \$2.70 | \$ 3.40 | \$ 54,432 | \$ 32,659 | \$ - | \$ 87,091 |
| | Wetland Sediment | HAUL-1 | Haul 10 miles one-way | 16,000 | cy | \$8.90 | \$ 11.21 | \$ 179,424 | \$ 107,654 | \$ - | \$ 287,078 |
| | Wetland Sediment | C-8 | Regional repository | 16,000 | cy | \$10.31 | \$ 12.99 | \$ 207,850 | \$ 124,710 | \$ 41,570 | \$ 374,129 |
| | Wetland Sediment | LB-8 | Place sand cap | 71,000 | cy | \$8.02 | \$ 10.11 | \$ 717,469 | \$ 430,482 | \$ 143,494 | \$ 1,291,445 |
| Bare Marsh | Wetland Sediment | C-1 | Excavation (land-based trackhoe) | 32,000 | cy | \$2.70 | \$ 3.40 | \$ 108,864 | \$ 65,318 | \$ - | \$ 174,182 |
| | Wetland Sediment | HAUL-1 | Haul 10 miles one-way | 32,000 | cy | \$8.90 | \$ 11.21 | \$ 358,848 | \$ 215,309 | \$ - | \$ 574,157 |
| | Wetland Sediment | C-8 | Regional repository | 32,000 | cy | \$10.31 | \$ 12.99 | \$ 415,699 | \$ 249,420 | \$ 83,140 | \$ 748,259 |
| | Wetland Sediment | LB-8 | Place sand cap | 270,000 | cy | \$8.02 | \$ 10.11 | \$ 2,728,404 | \$ 1,637,042 | \$ 545,681 | \$ 4,911,127 |
| Cave Lake (wetland areas) | Wetland Sediment | C-1 | Excavation (land-based trackhoe) | 32,000 | cy | \$2.70 | \$ 3.40 | \$ 108,864 | \$ 65,318 | \$ - | \$ 174,182 |
| | Wetland Sediment | HAUL-1 | Haul 10 miles one-way | 32,000 | cy | \$8.90 | \$ 11.21 | \$ 358,848 | \$ 215,309 | \$ - | \$ 574,157 |
| | Wetland Sediment | C-8 | Regional repository | 32,000 | cy | \$10.31 | \$ 12.99 | \$ 415,699 | \$ 249,420 | \$ 83,140 | \$ 748,259 |
| | Wetland Sediment | LB-8 | Place sand cap | 310,000 | cy | \$8.02 | \$ 10.11 | \$ 3,132,612 | \$ 1,879,567 | \$ 626,522 | \$ 5,638,702 |
| Other (Ag lands) | Wetland Sediment | N/A | Allowance for cleanup | 6 | LS | \$1,000,000 | \$ 1,260,000 | \$ 7,560,000 | \$ 4,536,000 | \$ - | \$ 12,096,000 |
| Thompson Lake | Palustrine Sediment | LB-4b | Dredge and pipeline | 67,000 | cy | \$7.59 | \$ 9.56 | \$ 640,748 | \$ 384,449 | \$ - | \$ 1,025,196 |
| | Palustrine Sediment | C-8 | Regional repository | 67,000 | cy | \$10.31 | \$ 12.99 | \$ 870,370 | \$ 522,222 | \$ 174,074 | \$ 1,566,666 |
| Killarney Lake | Palustrine Sediment | LB-4b | Dredge and pipeline | 265,000 | cy | \$7.59 | \$ 9.56 | \$ 2,534,301 | \$ 1,520,581 | \$ - | \$ 4,054,882 |
| | Palustrine Sediment | C-8 | Regional repository | 265,000 | cy | \$10.31 | \$ 12.99 | \$ 3,442,509 | \$ 2,065,505 | \$ 688,502 | \$ 6,196,516 |
| Medicine Lake | Palustrine Sediment | LB-4b | Dredge and pipeline | 158,000 | cy | \$7.59 | \$ 9.56 | \$ 1,511,017 | \$ 906,610 | \$ - | \$ 2,417,628 |
| | Palustrine Sediment | C-8 | Regional repository | 158,000 | cy | \$10.31 | \$ 12.99 | \$ 2,052,515 | \$ 1,231,509 | \$ 410,503 | \$ 3,694,527 |
| Swan Lake | Palustrine Sediment | LB-4b | Dredge and pipeline | 81,000 | cy | \$7.59 | \$ 9.56 | \$ 774,635 | \$ 464,781 | \$ - | \$ 1,239,417 |
| | Palustrine Sediment | C-8 | Regional repository | 81,000 | sf | \$10.31 | \$ 12.99 | \$ 1,052,239 | \$ 631,343 | \$ 210,448 | \$ 1,894,029 |
| Anderson Lake | Palustrine Sediment | LB-4b | Dredge and pipeline | 120,000 | cy | \$7.59 | \$ 9.56 | \$ 1,147,608 | \$ 688,565 | \$ - | \$ 1,836,173 |
| | Palustrine Sediment | C-8 | Regional repository | 120,000 | cy | \$10.31 | \$ 12.99 | \$ 1,558,872 | \$ 935,323 | \$ 311,774 | \$ 2,805,970 |
| Cave Lake | Palustrine Sediment | LB-4b | Dredge and pipeline | 180,000 | cy | \$7.59 | \$ 9.56 | \$ 1,721,412 | \$ 1,032,847 | \$ - | \$ 2,754,259 |
| | Palustrine Sediment | C-8 | Regional repository | 180,000 | cy | \$10.31 | \$ 12.99 | \$ 2,338,308 | \$ 1,402,985 | \$ 467,662 | \$ 4,208,954 |
| Floodplain | Floodplain Sediments | LB-2 | Soil amendment | 884 | ac | \$1,636.00 | \$ 2,061 | \$ 1,822,242 | \$ 1,093,345 | \$ 364,448 | \$ 3,280,036 |
| | Floodplain Sediments | LB-5 | Sediment trap | 2 | ea | \$270,020 | \$ 340,225 | \$ 680,450 | \$ 408,270 | \$ - | \$ 1,088,721 |
| | Floodplain Sediments | C-1 | Excavation (land-based excavator) | 50,000 | cy | \$2.70 | \$ 3.40 | \$ 170,100 | \$ 102,060 | \$ - | \$ 272,160 |
| | Floodplain Sediments | HAUL-1 | Haul 10 miles one-way | 50,000 | cy | \$8.90 | \$ 11.21 | \$ 560,700 | \$ 336,420 | \$ - | \$ 897,120 |
| | Floodplain Sediments | C-8 | Regional repository | 50,000 | cy | \$14.61 | \$ 18.41 | \$ 920,430 | \$ 552,258 | \$ 184,086 | \$ 1,656,774 |
| Splays | Splay deposits | C-1 | Excavate (land-based excavator) | 50,000 | cy | \$2.70 | \$ 3.40 | \$ 170,100 | \$ 102,060 | \$ - | \$ 272,160 |
| | Splay deposits | HAUL-1 | Haul 10 miles one-way | 50,000 | cy | \$8.90 | \$ 11.21 | \$ 560,700 | \$ 336,420 | \$ - | \$ 897,120 |
| | Splay deposits | C-8 | Regional repository | 50,000 | cy | \$14.61 | \$ 18.41 | \$ 920,430 | \$ 552,258 | \$ 184,086 | \$ 1,656,774 |
| Mission Flats | Dredge Spoils | C-11 | Hydraulic containment | 13,500 | lf | \$278.00 | \$ 350 | \$ 4,728,780 | \$ 2,837,268 | \$ 945,756 | \$ 8,511,804 |
| | Dredge Spoils | TRMT-1a | Media filter treatment plant | 1,000 | gpm | \$2,180.00 | \$ 2,747 | \$ 2,746,800 | \$ 1,648,080 | \$ 1,648,080 | \$ 6,042,960 |
| | Dredge Spoils | LB-2 | Soil amendment | 678 | ac | \$1,636.00 | \$ 2,061 | \$ 1,397,602 | \$ 838,561 | \$ 279,520 | \$ 2,515,684 |
| | Dredge Spoils | LB-7a | Construct new levee | 13,500 | lf | \$151.00 | \$ 190 | \$ 2,568,510 | \$ 1,541,106 | \$ 513,702 | \$ 4,623,318 |
| TOTALS: | | | | | | | | \$ 548,000,000 | \$ 329,000,000 | \$ 60,000,000 | \$ 937,000,000 |

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Table 9
Estimated Costs For Ecological Alternative 3
Upper South Fork Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|------------|--|-----------------------|--|----------|-------|--|-------------------------------------|---------------------------------------|-----------------------|-------------------------|
| ACCESSUG01 | Road Construction Required To Access Remote Source | General | Temporary Access Road | 28 | MI | \$250,000 | \$6,900,000 | \$4,200,000 | \$0 | \$11,000,000 |
| HHWPUG01-1 | Upland Waste Pile W/human Health Exposure | Upland Waste Rock | Cover waste pile | 1 | AC | \$54,000 | \$54,000 | \$33,000 | \$6,800 | \$93,000 |
| HHWPUG01-2 | Upland Waste Pile W/human Health Exposure | Upland Waste Rock | Cover waste pile | 1 | AC | \$54,000 | \$54,000 | \$33,000 | \$6,800 | \$93,000 |
| HHWPUG01-3 | Upland Waste Pile W/human Health Exposure | Upland Waste Rock | Cover waste pile | 1 | AC | \$54,000 | \$54,000 | \$33,000 | \$6,800 | \$93,000 |
| HHWPUG01-4 | Upland Waste Pile W/human Health Exposure | Upland Waste Rock | Cover waste pile | 1 | AC | \$54,000 | \$54,000 | \$33,000 | \$6,800 | \$93,000 |
| HHWPUG01-5 | Upland Waste Pile W/human Health Exposure | Upland Waste Rock | Cover waste pile | 1 | AC | \$54,000 | \$54,000 | \$33,000 | \$6,800 | \$93,000 |
| LHAULUG01 | Hauling To Local Repository | General | Haul to Local Repository, 1/2 Mile One Way | 320,000 | CY-MI | \$1.12 | \$360,000 | \$220,000 | \$0 | \$580,000 |
| LOK001 | Lucky Calumet No. 1 | Upland Waste Rock | Regrade/Consolidate/Revegetate | 1.3 | AC | \$71,000 | \$91,000 | \$55,000 | \$11,000 | \$160,000 |
| LOK002 | Lucky Calumet No. 2 | Upland Waste Rock | Regrade/Consolidate/Revegetate | 1.3 | AC | \$71,000 | \$90,000 | \$54,000 | \$11,000 | \$150,000 |
| LOK004 | Snowshoe No. 2 | Adit Drainage | Permeable Reactive Trench | 10 | CY | \$550 | \$5,500 | \$3,300 | \$33,000 | \$42,000 |
| LOK004 | Snowshoe No. 2 | Floodplain Waste Rock | Excavation | 61,000 | CY | \$3.40 | \$210,000 | \$120,000 | \$0 | \$330,000 |
| LOK004 | Snowshoe No. 2 | Floodplain Waste Rock | Local Repository Above Flood Level | 61,000 | CY | \$12 | \$750,000 | \$450,000 | \$170,000 | \$1,400,000 |
| LOK004 | Snowshoe No. 2 | Adit Drainage | Adit Drainage Collection | 1 | LS | \$7,800 | \$7,800 | \$4,700 | \$1,400 | \$14,000 |
| LOK005 | Lucky Boy No. 2 | Upland Waste Rock | Regrade/Consolidate/Revegetate | 0.18 | AC | \$71,000 | \$13,000 | \$7,600 | \$1,600 | \$22,000 |
| LOK006 | Lucky Boy No. 1 | Floodplain Waste Rock | Excavation | 1,200 | CY | \$3.40 | \$4,200 | \$2,500 | \$0 | \$6,800 |
| LOK006 | Lucky Boy No. 1 | Floodplain Waste Rock | Low Permeability Cap | 0.26 | AC | \$190,000 | \$49,000 | \$30,000 | \$6,200 | \$85,000 |
| LOK007 | Butte & Coeur D Alene (idaho Silver) | Upland Waste Rock | Regrade/Consolidate/Revegetate | 0.27 | AC | \$71,000 | \$19,000 | \$11,000 | \$2,400 | \$33,000 |
| LOK008 | Idaho Silver No. 2 | Floodplain Waste Rock | Low Permeability Cap | 0.38 | AC | \$190,000 | \$72,000 | \$43,000 | \$9,000 | \$120,000 |
| LOK008 | Idaho Silver No. 2 | Floodplain Waste Rock | Excavation | 1,800 | CY | \$3.40 | \$6,200 | \$3,700 | \$0 | \$9,900 |

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Table 9
Estimated Costs For Ecological Alternative 3
Upper South Fork Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|-----------|---------------------------|----------------------------|------------------------------------|----------|------|--|-------------------------------------|---------------------------------------|-----------------------|-------------------------|
| LOK009 | Snowstorm No. 4 | Floodplain Waste Rock | Local Repository Above Flood Level | 22,000 | CY | \$12 | \$270,000 | \$160,000 | \$61,000 | \$490,000 |
| LOK009 | Snowstorm No. 4 | Floodplain Waste Rock | Excavation | 22,000 | CY | \$3.40 | \$75,000 | \$45,000 | \$0 | \$120,000 |
| LOK010 | Hash House Mine | Floodplain Waste Rock | Low Permeability Cap | 0.14 | AC | \$190,000 | \$27,000 | \$16,000 | \$3,300 | \$46,000 |
| LOK010 | Hash House Mine | Floodplain Waste Rock | Excavation | 670 | CY | \$3.40 | \$2,300 | \$1,400 | \$0 | \$3,700 |
| LOK011 | Snowstorm No. 3 | Floodplain Waste Rock | Excavation | 55,000 | CY | \$3.40 | \$190,000 | \$110,000 | \$0 | \$300,000 |
| LOK011 | Snowstorm No. 3 | Adit Drainage | Permeable Reactive Trench | 12 | CY | \$550 | \$6,500 | \$3,900 | \$39,000 | \$49,000 |
| LOK011 | Snowstorm No. 3 | Adit Drainage | Adit Drainage Collection | 1 | LS | \$7,800 | \$7,800 | \$4,700 | \$1,400 | \$14,000 |
| LOK011 | Snowstorm No. 3 | Floodplain Waste Rock | Local Repository Above Flood Level | 55,000 | CY | \$12 | \$670,000 | \$400,000 | \$150,000 | \$1,200,000 |
| LOK017 | Beacon Light | Floodplain Waste Rock | Excavation | 6,200 | CY | \$3.40 | \$21,000 | \$13,000 | \$0 | \$34,000 |
| LOK017 | Beacon Light | Floodplain Waste Rock | Low Permeability Cap | 3.6 | AC | \$190,000 | \$690,000 | \$410,000 | \$86,000 | \$1,200,000 |
| LOK024 | Silver Cable Mine | Adit Drainage | Permeable Reactive Trench | 10 | CY | \$550 | \$5,500 | \$3,300 | \$33,000 | \$42,000 |
| LOK024 | Silver Cable Mine | Adit Drainage | Adit Drainage Collection | 1 | LS | \$7,800 | \$7,800 | \$4,700 | \$1,400 | \$14,000 |
| LOK048 | Snowstorm Apex | Floodplain Waste Rock | Regrade/Consolidate/Revegetate | 0.27 | AC | \$71,000 | \$19,000 | \$11,000 | \$2,400 | \$33,000 |
| LOK050 | Daisy Gulch Tailings Pond | Upland Tailings | Local Repository Above Flood Level | 13,000 | CY | \$12 | \$160,000 | \$95,000 | \$36,000 | \$290,000 |
| LOK050 | Daisy Gulch Tailings Pond | Upland Tailings | Excavation | 13,000 | CY | \$3.40 | \$44,000 | \$27,000 | \$0 | \$71,000 |
| LOK051 | Daisy Gulch Old Landfill | Floodplain Artificial Fill | Regrade/Consolidate/Revegetate | 1.9 | AC | \$71,000 | \$130,000 | \$81,000 | \$17,000 | \$230,000 |
| LOK053 | Unnamed Adit | Upland Waste Rock | Regrade/Consolidate/Revegetate | 0.31 | AC | \$71,000 | \$22,000 | \$13,000 | \$2,700 | \$38,000 |
| MUL001 | Golconda Minesite | Floodplain Waste Rock | Local Repository Above Flood Level | 75,000 | CY | \$12 | \$920,000 | \$550,000 | \$210,000 | \$1,700,000 |
| MUL001 | Golconda Minesite | Floodplain Waste Rock | Excavation | 75,000 | CY | \$3.40 | \$260,000 | \$150,000 | \$0 | \$410,000 |

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Table 9
Estimated Costs For Ecological Alternative 3
Upper South Fork Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|-----------|-----------------------|-----------------------|------------------------------------|----------|------|------------------------------------|-------------------------------|---------------------------------|--------------------|----------------------|
| MUL002 | Golconda Millsite | Upland Tailings | Excavation | 23,000 | CY | \$3.40 | \$78,000 | \$47,000 | \$0 | \$130,000 |
| MUL002 | Golconda Millsite | Upland Tailings | Local Repository Above Flood Level | 23,000 | CY | \$12 | \$280,000 | \$170,000 | \$63,000 | \$510,000 |
| MUL004 | United Lead Zinc Mine | Floodplain Waste Rock | Excavation | 3,900 | CY | \$3.40 | \$13,000 | \$8,000 | \$0 | \$21,000 |
| MUL004 | United Lead Zinc Mine | Floodplain Waste Rock | Low Permeability Cap | 0.82 | AC | \$190,000 | \$160,000 | \$94,000 | \$20,000 | \$270,000 |
| MUL006 | Square Deal Mine | Floodplain Waste Rock | Low Permeability Cap | 0.73 | AC | \$190,000 | \$140,000 | \$83,000 | \$17,000 | \$240,000 |
| MUL006 | Square Deal Mine | Floodplain Waste Rock | Excavation | 3,500 | CY | \$3.40 | \$12,000 | \$7,200 | \$0 | \$19,000 |
| MUL007 | Wonder Mine | Upland Waste Rock | Regrade/Consolidate/Revegetate | 0.95 | AC | \$71,000 | \$67,000 | \$40,000 | \$8,400 | \$120,000 |
| MUL008 | Alice Mine | Floodplain Waste Rock | Low Permeability Cap | 1.3 | AC | \$190,000 | \$250,000 | \$150,000 | \$32,000 | \$440,000 |
| MUL008 | Alice Mine | Floodplain Waste Rock | Excavation | 6,600 | CY | \$3.40 | \$22,000 | \$13,000 | \$0 | \$36,000 |
| MUL009 | Silver Shaft | Upland Waste Rock | Regrade/Consolidate/Revegetate | 0.25 | AC | \$71,000 | \$18,000 | \$11,000 | \$2,200 | \$30,000 |
| MUL012 | Star 1200 Level | Floodplain Waste Rock | Low Permeability Cap | 6.8 | AC | \$190,000 | \$1,300,000 | \$770,000 | \$160,000 | \$2,200,000 |
| MUL012 | Star 1200 Level | Adit Drainage | Adit Drainage Collection | 1 | LS | \$7,800 | \$7,800 | \$4,700 | \$1,400 | \$14,000 |
| MUL012 | Star 1200 Level | Floodplain Waste Rock | Excavation | 110,000 | CY | \$3.40 | \$370,000 | \$220,000 | \$0 | \$590,000 |
| MUL012 | Star 1200 Level | Adit Drainage | Media Filter Treatment Plant | 310 | GPM | \$1,500 | \$470,000 | \$350,000 | \$940,000 | \$1,800,000 |
| MUL013 | We Like Mine | Upland Waste Rock | Regrade/Consolidate/Revegetate | 0.53 | AC | \$71,000 | \$37,000 | \$22,000 | \$4,700 | \$65,000 |
| MUL014 | Grouse Mine | Adit Drainage | Adit Drainage Collection | 1 | LS | \$7,800 | \$7,800 | \$4,700 | \$1,400 | \$14,000 |
| MUL014 | Grouse Mine | Upland Waste Rock | Excavation | 1,600 | CY | \$3.40 | \$5,400 | \$3,200 | \$0 | \$8,600 |
| MUL014 | Grouse Mine | Adit Drainage | Permeable Reactive Trench | 26 | CY | \$550 | \$14,000 | \$8,600 | \$86,000 | \$110,000 |
| MUL014 | Grouse Mine | Upland Waste Rock | Low Permeability Cap | 0.33 | AC | \$190,000 | \$63,000 | \$38,000 | \$7,800 | \$110,000 |

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Table 9
Estimated Costs For Ecological Alternative 3
Upper South Fork Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|-----------|----------------------------------|------------------------|---------------------------------------|----------|------|------------------------------------|-------------------------------|---------------------------------|--------------------|----------------------|
| MUL015 | West Star Mine | Upland Waste Rock | Regrade/Consolidate/Revegetate | 9.3 | AC | \$71,000 | \$660,000 | \$400,000 | \$82,000 | \$1,100,000 |
| MUL018 | Mullan Metals Mine | Floodplain Waste Rock | Excavation | 14,000 | CY | \$3.40 | \$49,000 | \$29,000 | \$0 | \$78,000 |
| MUL018 | Mullan Metals Mine | Floodplain Waste Rock | Local Repository Above Flood Level | 14,000 | CY | \$12 | \$180,000 | \$110,000 | \$40,000 | \$320,000 |
| MUL019 | Morning No.6 | Floodplain Waste Rock | Excavation | 67,000 | CY | \$3.40 | \$230,000 | \$140,000 | \$0 | \$370,000 |
| MUL019 | Morning No.6 | Floodplain Tailings | Excavation | 85,000 | CY | \$3.40 | \$290,000 | \$170,000 | \$0 | \$460,000 |
| MUL019 | Morning No.6 | Adit Drainage | Permeable Reactive Trench | 34 | CY | \$550 | \$19,000 | \$11,000 | \$110,000 | \$140,000 |
| MUL019 | Morning No.6 | Floodplain Tailings | Local Repository Above Flood Level | 85,000 | CY | \$12 | \$1,000,000 | \$620,000 | \$230,000 | \$1,900,000 |
| MUL019 | Morning No.6 | Buildings & Structures | Decon millsite | 1 | LS | \$130,000 | \$130,000 | \$76,000 | \$6,300 | \$210,000 |
| MUL019 | Morning No.6 | Floodplain Waste Rock | Low Permeability Cap | 18 | AC | \$190,000 | \$3,400,000 | \$2,000,000 | \$420,000 | \$5,800,000 |
| MUL019 | Morning No.6 | Adit Drainage | Adit Drainage Collection | 1 | LS | \$7,800 | \$7,800 | \$4,700 | \$1,400 | \$14,000 |
| MUL020 | Lucky Friday Tailings Pond No. 3 | Groundwater | Permeable Reactive Trench | 170 | CY | \$550 | \$94,000 | \$57,000 | \$570,000 | \$720,000 |
| MUL020 | Lucky Friday Tailings Pond No. 3 | Floodplain Sediments | Hydraulic Isolation Using Slurry Wall | 3,200 | LF | \$350 | \$1,100,000 | \$680,000 | \$450,000 | \$2,300,000 |
| MUL020 | Lucky Friday Tailings Pond No. 3 | Floodplain Tailings | Hydraulic Isolation Using Slurry Wall | 1 | LF | \$350 | \$350 | \$210 | \$140 | \$710 |
| MUL021 | Independence Mine | Floodplain Waste Rock | Excavation | 5,800 | CY | \$3.40 | \$20,000 | \$12,000 | \$0 | \$32,000 |
| MUL021 | Independence Mine | Floodplain Waste Rock | Low Permeability Cap | 1.2 | AC | \$190,000 | \$230,000 | \$140,000 | \$29,000 | \$400,000 |
| MUL022 | Sunshine Premier Mine | Upland Waste Rock | Regrade/Consolidate/Revegetate | 0.35 | AC | \$71,000 | \$25,000 | \$15,000 | \$3,100 | \$43,000 |
| MUL023 | Fanny Gremm Mine | Adit Drainage | Adit Drainage Collection | 1 | LS | \$7,800 | \$7,800 | \$4,700 | \$1,400 | \$14,000 |
| MUL023 | Fanny Gremm Mine | Floodplain Waste Rock | Local Repository Above Flood Level | 31,000 | CY | \$12 | \$380,000 | \$230,000 | \$86,000 | \$700,000 |
| MUL023 | Fanny Gremm Mine | Floodplain Waste Rock | Excavation | 31,000 | CY | \$3.40 | \$110,000 | \$64,000 | \$0 | \$170,000 |

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Table 9
Estimated Costs For Ecological Alternative 3
Upper South Fork Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|-----------|----------------------------------|-----------------------|---------------------------------------|----------|------|------------------------------------|-------------------------------|---------------------------------|--------------------|----------------------|
| MUL023 | Fanny Gremm Mine | Adit Drainage | Permeable Reactive Trench | 10 | CY | \$550 | \$5,500 | \$3,300 | \$33,000 | \$42,000 |
| MUL027 | Morning No.4 | Upland Waste Rock | Regrade/Consolidate/Revegetate | 0.99 | AC | \$140,000 | \$140,000 | \$82,000 | \$17,000 | \$240,000 |
| MUL027 | Morning No.4 | Adit Drainage | Adit Drainage Collection | 1 | LS | \$7,800 | \$7,800 | \$4,700 | \$1,400 | \$14,000 |
| MUL027 | Morning No.4 | Adit Drainage | Permeable Reactive Trench | 10 | CY | \$550 | \$5,500 | \$3,300 | \$33,000 | \$42,000 |
| MUL028 | Morning No.5 | Adit Drainage | Permeable Reactive Trench | 15 | CY | \$550 | \$8,300 | \$5,000 | \$50,000 | \$63,000 |
| MUL028 | Morning No.5 | Floodplain Waste Rock | Low Permeability Cap | 4.3 | AC | \$190,000 | \$810,000 | \$490,000 | \$100,000 | \$1,400,000 |
| MUL028 | Morning No.5 | Adit Drainage | Adit Drainage Collection | 1 | LS | \$7,800 | \$7,800 | \$4,700 | \$1,400 | \$14,000 |
| MUL028 | Morning No.5 | Floodplain Waste Rock | Excavation | 20,000 | CY | \$3.40 | \$69,000 | \$42,000 | \$0 | \$110,000 |
| MUL029 | North Franklin Mine | Floodplain Waste Rock | Local Repository Above Flood Level | 20,000 | CY | \$12 | \$250,000 | \$150,000 | \$56,000 | \$460,000 |
| MUL029 | North Franklin Mine | Floodplain Waste Rock | Excavation | 20,000 | CY | \$3.40 | \$69,000 | \$42,000 | \$0 | \$110,000 |
| MUL030 | Wall Street Mine | Floodplain Waste Rock | Low Permeability Cap | 0.36 | AC | \$190,000 | \$68,000 | \$41,000 | \$8,600 | \$120,000 |
| MUL030 | Wall Street Mine | Floodplain Waste Rock | Excavation | 1,700 | CY | \$3.40 | \$5,900 | \$3,500 | \$0 | \$9,400 |
| MUL031 | Cincinnati Mine | Upland Waste Rock | Regrade/Consolidate/Revegetate | 0.34 | AC | \$71,000 | \$24,000 | \$14,000 | \$3,000 | \$41,000 |
| MUL033 | American Commander No.2 | Floodplain Waste Rock | Local Repository Above Flood Level | 16,000 | CY | \$12 | \$190,000 | \$120,000 | \$44,000 | \$350,000 |
| MUL033 | American Commander No.2 | Floodplain Waste Rock | Excavation | 16,000 | CY | \$3.40 | \$54,000 | \$32,000 | \$0 | \$86,000 |
| MUL037 | Lucky Friday Tailings Pond No. 2 | Floodplain Sediments | Regional Repository | 43,000 | CY | \$11 | \$470,000 | \$280,000 | \$95,000 | \$850,000 |
| MUL037 | Lucky Friday Tailings Pond No. 2 | Floodplain Sediments | Hydraulic Isolation Using Slurry Wall | 3,400 | LF | \$350 | \$1,200,000 | \$720,000 | \$480,000 | \$2,400,000 |
| MUL037 | Lucky Friday Tailings Pond No. 2 | Floodplain Sediments | Sediment Excavation | 43,000 | CY | \$13 | \$540,000 | \$330,000 | \$0 | \$870,000 |
| MUL037 | Lucky Friday Tailings Pond No. 2 | Floodplain Tailings | Hydraulic Isolation Using Slurry Wall | 1 | LF | \$350 | \$350 | \$210 | \$140 | \$710 |

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Table 9
Estimated Costs For Ecological Alternative 3
Upper South Fork Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|-----------|-------------------|-----------------------|------------------------------------|----------|------|--|-------------------------------------|---------------------------------------|-----------------------|-------------------------|
| MUL038 | Gold Hunter No. 6 | Floodplain Tailings | Excavation | 13,000 | CY | \$3.40 | \$44,000 | \$27,000 | \$0 | \$71,000 |
| MUL038 | Gold Hunter No. 6 | Floodplain Tailings | Local Repository Above Flood Level | 13,000 | CY | \$12 | \$160,000 | \$95,000 | \$36,000 | \$290,000 |
| MUL038 | Gold Hunter No. 6 | Floodplain Waste Rock | Low Permeability Cap | 2.8 | AC | \$190,000 | \$530,000 | \$320,000 | \$66,000 | \$910,000 |
| MUL038 | Gold Hunter No. 6 | Floodplain Waste Rock | Excavation | 13,000 | CY | \$3.40 | \$45,000 | \$27,000 | \$0 | \$72,000 |
| MUL042 | Gold Hunter No. 5 | Floodplain Waste Rock | Excavation | 14,000 | CY | \$3.40 | \$47,000 | \$28,000 | \$0 | \$76,000 |
| MUL042 | Gold Hunter No. 5 | Floodplain Waste Rock | Local Repository Above Flood Level | 14,000 | CY | \$12 | \$170,000 | \$100,000 | \$38,000 | \$310,000 |
| MUL043 | Silver Reef Mine | Floodplain Waste Rock | Excavation | 18,000 | CY | \$3.40 | \$60,000 | \$36,000 | \$0 | \$95,000 |
| MUL043 | Silver Reef Mine | Floodplain Waste Rock | Local Repository Above Flood Level | 18,000 | CY | \$12 | \$210,000 | \$130,000 | \$48,000 | \$390,000 |
| MUL045 | Homestake Mine | Floodplain Waste Rock | Local Repository Above Flood Level | 28,000 | CY | \$12 | \$340,000 | \$200,000 | \$76,000 | \$620,000 |
| MUL045 | Homestake Mine | Floodplain Waste Rock | Excavation | 28,000 | CY | \$3.40 | \$94,000 | \$56,000 | \$0 | \$150,000 |
| MUL047 | Lottie L. Mine | Floodplain Waste Rock | Excavation | 1,100 | CY | \$3.40 | \$3,800 | \$2,300 | \$0 | \$6,000 |
| MUL047 | Lottie L. Mine | Floodplain Waste Rock | Low Permeability Cap | 0.23 | AC | \$190,000 | \$44,000 | \$26,000 | \$5,500 | \$75,000 |
| MUL048 | Alma Mine | Floodplain Waste Rock | Local Repository Above Flood Level | 21,000 | CY | \$12 | \$260,000 | \$160,000 | \$59,000 | \$480,000 |
| MUL048 | Alma Mine | Floodplain Waste Rock | Excavation | 21,000 | CY | \$3.40 | \$73,000 | \$44,000 | \$0 | \$120,000 |
| MUL049 | Copper Plate Mine | Upland Waste Rock | Regrade/Consolidate/Revegetate | 0.30 | AC | \$71,000 | \$21,000 | \$13,000 | \$2,600 | \$37,000 |
| MUL051 | Pilot Mine | Floodplain Waste Rock | Excavation | 5,800 | CY | \$3.40 | \$20,000 | \$12,000 | \$0 | \$31,000 |
| MUL051 | Pilot Mine | Floodplain Waste Rock | Low Permeability Cap | 1.2 | AC | \$190,000 | \$230,000 | \$140,000 | \$29,000 | \$390,000 |
| MUL052 | Copper King Mine | Floodplain Waste Rock | Low Permeability Cap | 1.3 | AC | \$190,000 | \$250,000 | \$150,000 | \$32,000 | \$440,000 |
| MUL052 | Copper King Mine | Adit Drainage | Adit Drainage Collection | 1 | LS | \$7,800 | \$7,800 | \$4,700 | \$1,400 | \$14,000 |

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Table 9
Estimated Costs For Ecological Alternative 3
Upper South Fork Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|-----------|---------------------------------|-----------------------|---------------------------------------|----------|------|------------------------------------|-------------------------------|---------------------------------|--------------------|----------------------|
| MUL052 | Copper King Mine | Floodplain Waste Rock | Excavation | 3,000 | CY | \$3.40 | \$10,000 | \$6,100 | \$0 | \$16,000 |
| MUL052 | Copper King Mine | Adit Drainage | Permeable Reactive Trench | 10 | CY | \$550 | \$5,500 | \$3,300 | \$33,000 | \$42,000 |
| MUL053 | National Mine | Upland Waste Rock | Regrade/Consolidate/Revegetate | 3.2 | AC | \$71,000 | \$220,000 | \$130,000 | \$28,000 | \$380,000 |
| MUL054 | Unnamed Adit | Upland Waste Rock | Regrade/Consolidate/Revegetate | 0.94 | AC | \$71,000 | \$66,000 | \$40,000 | \$8,300 | \$110,000 |
| MUL056 | Coughlin Mine | Upland Waste Rock | Regrade/Consolidate/Revegetate | 0.35 | AC | \$71,000 | \$25,000 | \$15,000 | \$3,100 | \$43,000 |
| MUL057 | Butte And Coeur D Alene Mine | Upland Waste Rock | Regrade/Consolidate/Revegetate | 0.79 | AC | \$71,000 | \$56,000 | \$33,000 | \$7,000 | \$96,000 |
| MUL058 | Lucky Friday Tailings Pond No.1 | Floodplain Sediments | Hydraulic Isolation Using Slurry Wall | 6,100 | LF | \$350 | \$2,200,000 | \$1,300,000 | \$860,000 | \$4,300,000 |
| MUL058 | Lucky Friday Tailings Pond No.1 | Floodplain Sediments | Regional Repository | 140,000 | CY | \$11 | \$1,500,000 | \$920,000 | \$310,000 | \$2,800,000 |
| MUL058 | Lucky Friday Tailings Pond No.1 | Floodplain Sediments | Sediment Excavation | 140,000 | CY | \$13 | \$1,800,000 | \$1,100,000 | \$0 | \$2,800,000 |
| MUL058 | Lucky Friday Tailings Pond No.1 | Floodplain Tailings | Hydraulic Isolation Using Slurry Wall | 1 | LF | \$350 | \$350 | \$210 | \$140 | \$710 |
| MUL059 | Rock Creek Mine Rock Dump | Floodplain Waste Rock | Local Repository Above Flood Level | 23,000 | CY | \$12 | \$280,000 | \$170,000 | \$62,000 | \$500,000 |
| MUL059 | Rock Creek Mine Rock Dump | Floodplain Waste Rock | Excavation | 23,000 | CY | \$3.40 | \$77,000 | \$46,000 | \$0 | \$120,000 |
| MUL060 | Rock Creek Mine | Floodplain Waste Rock | Excavation | 1,000 | CY | \$3.40 | \$3,400 | \$2,100 | \$0 | \$5,500 |
| MUL060 | Rock Creek Mine | Floodplain Waste Rock | Low Permeability Cap | 0.21 | AC | \$190,000 | \$40,000 | \$24,000 | \$5,000 | \$69,000 |
| MUL063 | Gem State Mine | Floodplain Waste Rock | Excavation | 1,000 | CY | \$3.40 | \$3,400 | \$2,100 | \$0 | \$5,500 |
| MUL063 | Gem State Mine | Floodplain Waste Rock | Low Permeability Cap | 0.21 | AC | \$190,000 | \$40,000 | \$24,000 | \$5,000 | \$69,000 |
| MUL065 | Moe Mine | Floodplain Waste Rock | Excavation | 1,500 | CY | \$3.40 | \$5,100 | \$3,000 | \$0 | \$8,100 |
| MUL065 | Moe Mine | Floodplain Waste Rock | Low Permeability Cap | 0.31 | AC | \$190,000 | \$59,000 | \$35,000 | \$7,400 | \$100,000 |
| MUL071 | Atlas Mine | Floodplain Waste Rock | Excavation | 500 | CY | \$3.40 | \$1,700 | \$1,000 | \$0 | \$2,700 |

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Table 9
Estimated Costs For Ecological Alternative 3
Upper South Fork Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|-----------|--|-----------------------|------------------------------------|----------|------|--|-------------------------------------|---------------------------------------|-----------------------|-------------------------|
| MUL071 | Atlas Mine | Floodplain Waste Rock | Low Permeability Cap | 8.1 | AC | \$190,000 | \$1,500,000 | \$930,000 | \$190,000 | \$2,700,000 |
| MUL073 | Atlas Mine (carbonate Hill) | Upland Waste Rock | Regrade/Consolidate/Revegetate | 2.1 | AC | \$71,000 | \$150,000 | \$87,000 | \$18,000 | \$250,000 |
| MUL081 | Reindeer Queen Mine | Floodplain Waste Rock | Excavation | 1,600 | CY | \$3.40 | \$5,400 | \$3,300 | \$0 | \$8,700 |
| MUL081 | Reindeer Queen Mine | Floodplain Waste Rock | Low Permeability Cap | 0.76 | AC | \$190,000 | \$140,000 | \$87,000 | \$18,000 | \$250,000 |
| MUL083 | Copper Queen Mine | Floodplain Waste Rock | Excavation | 3,100 | CY | \$3.40 | \$10,000 | \$6,300 | \$0 | \$17,000 |
| MUL083 | Copper Queen Mine | Floodplain Waste Rock | Low Permeability Cap | 0.64 | AC | \$190,000 | \$120,000 | \$73,000 | \$15,000 | \$210,000 |
| MUL103 | Missoula Mine | Floodplain Waste Rock | Excavation | 1,300 | CY | \$3.40 | \$4,300 | \$2,600 | \$0 | \$6,900 |
| MUL103 | Missoula Mine | Floodplain Waste Rock | Low Permeability Cap | 0.94 | AC | \$190,000 | \$180,000 | \$110,000 | \$22,000 | \$310,000 |
| MUL119 | Unnamed Adit | Upland Waste Rock | Regrade/Consolidate/Revegetate | 0.28 | AC | \$71,000 | \$20,000 | \$12,000 | \$2,500 | \$34,000 |
| MUL120 | Banner Mine No. 02 | Floodplain Waste Rock | Low Permeability Cap | 0.34 | AC | \$190,000 | \$65,000 | \$39,000 | \$8,100 | \$110,000 |
| MUL120 | Banner Mine No. 02 | Floodplain Waste Rock | Excavation | 110 | CY | \$3.40 | \$380 | \$230 | \$0 | \$610 |
| MUL129 | Atlas Mine Rock Dump | Floodplain Waste Rock | Low Permeability Cap | 1.1 | AC | \$190,000 | \$210,000 | \$130,000 | \$26,000 | \$360,000 |
| MUL129 | Atlas Mine Rock Dump | Floodplain Waste Rock | Excavation | 5,300 | CY | \$3.40 | \$18,000 | \$11,000 | \$0 | \$29,000 |
| MUL131 | National Millsite | Upland Tailings | Local Repository Above Flood Level | 6,600 | CY | \$12 | \$81,000 | \$48,000 | \$18,000 | \$150,000 |
| MUL131 | National Millsite | Upland Tailings | Excavation | 6,600 | CY | \$3.40 | \$22,000 | \$13,000 | \$0 | \$36,000 |
| MUL132 | National Millsite Adjacent Tailings | Upland Tailings | Local Repository Above Flood Level | 1,800 | CY | \$12 | \$22,000 | \$13,000 | \$5,000 | \$40,000 |
| MUL132 | National Millsite Adjacent Tailings | Upland Tailings | Excavation | 1,800 | CY | \$3.40 | \$6,100 | \$3,700 | \$0 | \$9,800 |
| MUL135 | Unnamed Adit | Upland Waste Rock | Regrade/Consolidate/Revegetate | 0.18 | AC | \$71,000 | \$13,000 | \$7,600 | \$1,600 | \$22,000 |
| MUL136 | Unnamed Adit | Upland Waste Rock | Regrade/Consolidate/Revegetate | 0.12 | AC | \$71,000 | \$8,500 | \$5,100 | \$1,100 | \$15,000 |

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Table 9
Estimated Costs For Ecological Alternative 3
Upper South Fork Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|-----------|------------------------------------|-----------------------|------------------------------------|-----------|-------|--|-------------------------------------|---------------------------------------|-----------------------|-------------------------|
| MUL139 | Unnamed Adit | Upland Waste Rock | Excavation | 200 | CY | \$3.40 | \$680 | \$410 | \$0 | \$1,100 |
| MUL139 | Unnamed Adit | Upland Waste Rock | Local Repository Above Flood Level | 200 | CY | \$12 | \$2,400 | \$1,500 | \$550 | \$4,500 |
| MUL141 | Mill Ck Impacted Riparian No. 3 | Floodplain Sediments | Local Repository Above Flood Level | 4,800 | CY | \$12 | \$59,000 | \$35,000 | \$13,000 | \$110,000 |
| MUL141 | Mill Ck Impacted Riparian No. 3 | Floodplain Sediments | Sediment Excavation | 4,800 | CY | \$13 | \$61,000 | \$36,000 | \$0 | \$97,000 |
| MUL142 | Grouse Gulch Impacted Riparian | Floodplain Sediments | Local Repository Above Flood Level | 17,000 | CY | \$12 | \$210,000 | \$130,000 | \$47,000 | \$380,000 |
| MUL142 | Grouse Gulch Impacted Riparian | Floodplain Sediments | Sediment Excavation | 17,000 | CY | \$13 | \$220,000 | \$130,000 | \$0 | \$350,000 |
| MUL145 | Mill Ck Impacted Riparian No. 2 | Floodplain Sediments | Sediment Excavation | 2,100 | CY | \$13 | \$26,000 | \$16,000 | \$0 | \$42,000 |
| MUL145 | Mill Ck Impacted Riparian No. 2 | Floodplain Sediments | Local Repository Above Flood Level | 2,100 | CY | \$12 | \$26,000 | \$15,000 | \$5,800 | \$47,000 |
| MUL146 | Morning No.3 | Upland Waste Rock | Low Permeability Cap | 1.3 | AC | \$190,000 | \$250,000 | \$150,000 | \$31,000 | \$430,000 |
| MUL146 | Morning No.3 | Upland Waste Rock | Excavation | 31,000 | CY | \$3.40 | \$110,000 | \$64,000 | \$0 | \$170,000 |
| MUL149 | Mill Ck Impacted Riparian No. 1 | Floodplain Sediments | Sediment Excavation | 2,800 | CY | \$13 | \$36,000 | \$21,000 | \$0 | \$57,000 |
| MUL149 | Mill Ck Impacted Riparian No. 1 | Floodplain Sediments | Local Repository Above Flood Level | 2,800 | CY | \$12 | \$35,000 | \$21,000 | \$7,800 | \$63,000 |
| MUL150 | Deadman Gulch Impacted Riparian | Floodplain Sediments | Sediment Excavation | 7,600 | CY | \$13 | \$95,000 | \$57,000 | \$0 | \$150,000 |
| MUL150 | Deadman Gulch Impacted Riparian | Floodplain Sediments | Local Repository Above Flood Level | 7,600 | CY | \$12 | \$92,000 | \$55,000 | \$21,000 | \$170,000 |
| MUL153 | Deadman Gulch Impacted Riparian | Floodplain Sediments | Sediment Excavation | 3,800 | CY | \$13 | \$48,000 | \$29,000 | \$0 | \$77,000 |
| MUL153 | Deadman Gulch Impacted Riparian | Floodplain Sediments | Local Repository Above Flood Level | 3,800 | CY | \$12 | \$46,000 | \$28,000 | \$10,000 | \$85,000 |
| PIPEUG01 | Pipeline To Active Treatment | General | Conveyance Pipeline-6" | 32,000 | LF | \$49 | \$1,600,000 | \$940,000 | \$120,000 | \$2,600,000 |
| RHAULUG01 | Hauling To Regional Repository | General | Haul to Regional Repository | 5,500,000 | CY-MI | \$1.12 | \$6,200,000 | \$3,700,000 | \$0 | \$9,900,000 |
| THO020 | Bull Frog Mine | Floodplain Waste Rock | Excavation | 1,400 | CY | \$3.40 | \$4,700 | \$2,800 | \$0 | \$7,600 |

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Table 9
Estimated Costs For Ecological Alternative 3
Upper South Fork Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|-----------|-----------------------------------|------------------------|---|----------|------|------------------------------------|-------------------------------|---------------------------------|--------------------|----------------------|
| THO020 | Bull Frog Mine | Floodplain Waste Rock | Low Permeability Cap | 0.29 | AC | \$190,000 | \$55,000 | \$33,000 | \$6,900 | \$95,000 |
| UG01-10 | Goldhunter Gulch To Boulder Creek | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 1,200 | LF | \$100 | \$130,000 | \$77,000 | \$39,000 | \$240,000 |
| UG01-10 | Goldhunter Gulch To Boulder Creek | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 1,500 | LF | \$45 | \$70,000 | \$42,000 | \$21,000 | \$130,000 |
| UG01-10 | Goldhunter Gulch To Boulder Creek | Bioengineering Actions | Current Deflector Average Cost | 28 | EA | \$1,700 | \$48,000 | \$29,000 | \$14,000 | \$92,000 |
| UG01-10 | Goldhunter Gulch To Boulder Creek | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 110,000 | SF | \$1.18 | \$130,000 | \$80,000 | \$23,000 | \$240,000 |
| UG01-10 | Goldhunter Gulch To Boulder Creek | Bioengineering Actions | Current Deflector Sediment Traps | 3.1 | EA | \$1,700 | \$5,400 | \$3,200 | \$31,000 | \$40,000 |
| UG01-11 | Boulder Creek To Mill Creek | Bioengineering Actions | Current Deflector Average Cost | 8.4 | EA | \$1,700 | \$15,000 | \$8,800 | \$4,400 | \$28,000 |
| UG01-11 | Boulder Creek To Mill Creek | Bioengineering Actions | Current Deflector Sediment Traps | 0.90 | EA | \$1,700 | \$1,600 | \$940 | \$9,100 | \$12,000 |
| UG01-11 | Boulder Creek To Mill Creek | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 110,000 | SF | \$1.18 | \$130,000 | \$76,000 | \$22,000 | \$220,000 |
| UG01-11 | Boulder Creek To Mill Creek | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 350 | LF | \$100 | \$37,000 | \$22,000 | \$11,000 | \$70,000 |
| UG01-11 | Boulder Creek To Mill Creek | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 650 | LF | \$45 | \$29,000 | \$18,000 | \$8,800 | \$56,000 |
| UG01-12 | Mill Creek To Gold Creek | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 530,000 | SF | \$1.18 | \$620,000 | \$370,000 | \$110,000 | \$1,100,000 |
| UG01-12 | Mill Creek To Gold Creek | Bioengineering Actions | Current Deflector Average Cost | 80 | EA | \$1,700 | \$140,000 | \$83,000 | \$42,000 | \$260,000 |
| UG01-12 | Mill Creek To Gold Creek | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 4,400 | LF | \$100 | \$460,000 | \$280,000 | \$140,000 | \$880,000 |
| UG01-12 | Mill Creek To Gold Creek | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 4,400 | LF | \$45 | \$200,000 | \$120,000 | \$60,000 | \$380,000 |
| UG01-12 | Mill Creek To Gold Creek | Bioengineering Actions | Current Deflector Sediment Traps | 9 | EA | \$1,700 | \$16,000 | \$9,400 | \$91,000 | \$120,000 |
| UG01-13 | Gold Creek To St Joe Creek | Bioengineering Actions | Current Deflector Sediment Traps | 4.9 | EA | \$1,700 | \$8,500 | \$5,100 | \$49,000 | \$63,000 |
| UG01-13 | Gold Creek To St Joe Creek | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 96,000 | SF | \$1.18 | \$110,000 | \$68,000 | \$20,000 | \$200,000 |
| UG01-13 | Gold Creek To St Joe Creek | Bioengineering Actions | Current Deflector Average Cost | 44 | EA | \$1,700 | \$76,000 | \$46,000 | \$23,000 | \$140,000 |

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Table 9
Estimated Costs For Ecological Alternative 3
Upper South Fork Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|-----------|----------------------------------|------------------------|---|----------|------|------------------------------------|-------------------------------|---------------------------------|--------------------|----------------------|
| UG01-13 | Gold Creek To St Joe Creek | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 2,400 | LF | \$100 | \$250,000 | \$150,000 | \$76,000 | \$480,000 |
| UG01-13 | Gold Creek To St Joe Creek | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 2,400 | LF | \$45 | \$110,000 | \$66,000 | \$33,000 | \$210,000 |
| UG01-14 | St Joe Creek To Grouse Gulch | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 470 | LF | \$45 | \$21,000 | \$13,000 | \$6,400 | \$41,000 |
| UG01-14 | St Joe Creek To Grouse Gulch | Bioengineering Actions | Current Deflector Sediment Traps | 0.90 | EA | \$1,700 | \$1,600 | \$940 | \$9,100 | \$12,000 |
| UG01-14 | St Joe Creek To Grouse Gulch | Bioengineering Actions | Current Deflector Average Cost | 8.5 | EA | \$1,700 | \$15,000 | \$8,900 | \$4,400 | \$28,000 |
| UG01-14 | St Joe Creek To Grouse Gulch | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 470 | LF | \$100 | \$49,000 | \$30,000 | \$15,000 | \$94,000 |
| UG01-14 | St Joe Creek To Grouse Gulch | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 16,000 | SF | \$1.18 | \$19,000 | \$12,000 | \$3,400 | \$34,000 |
| UG01-15 | Grouse Gulch To Ruby Gulch | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 1,700 | LF | \$45 | \$77,000 | \$46,000 | \$23,000 | \$150,000 |
| UG01-15 | Grouse Gulch To Ruby Gulch | Bioengineering Actions | Current Deflector Average Cost | 31 | EA | \$1,700 | \$53,000 | \$32,000 | \$16,000 | \$100,000 |
| UG01-15 | Grouse Gulch To Ruby Gulch | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 5,100 | SF | \$1.18 | \$6,100 | \$3,600 | \$1,100 | \$11,000 |
| UG01-15 | Grouse Gulch To Ruby Gulch | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 1,700 | LF | \$100 | \$180,000 | \$110,000 | \$53,000 | \$340,000 |
| UG01-15 | Grouse Gulch To Ruby Gulch | Bioengineering Actions | Current Deflector Sediment Traps | 3.4 | EA | \$1,700 | \$5,900 | \$3,500 | \$34,000 | \$44,000 |
| UG01-16 | Ruby Gulch To Trowbridge Gulch | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 2,900 | LF | \$45 | \$130,000 | \$79,000 | \$39,000 | \$250,000 |
| UG01-16 | Ruby Gulch To Trowbridge Gulch | Bioengineering Actions | Current Deflector Sediment Traps | 3 | EA | \$1,700 | \$5,200 | \$3,100 | \$30,000 | \$39,000 |
| UG01-16 | Ruby Gulch To Trowbridge Gulch | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 1,600 | LF | \$100 | \$160,000 | \$98,000 | \$49,000 | \$310,000 |
| UG01-16 | Ruby Gulch To Trowbridge Gulch | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 380,000 | SF | \$1.18 | \$450,000 | \$270,000 | \$79,000 | \$800,000 |
| UG01-16 | Ruby Gulch To Trowbridge Gulch | Bioengineering Actions | Current Deflector Average Cost | 27 | EA | \$1,700 | \$47,000 | \$28,000 | \$14,000 | \$89,000 |
| UG01-17 | Trowbridge Gulch To Dexter Gulch | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 3,700 | LF | \$100 | \$390,000 | \$230,000 | \$120,000 | \$730,000 |
| UG01-17 | Trowbridge Gulch To Dexter Gulch | Bioengineering Actions | Off-Channel Hydrologic Feature Average Cost | 17,000 | SY | \$37 | \$640,000 | \$380,000 | \$110,000 | \$1,100,000 |

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Table 9
Estimated Costs For Ecological Alternative 3
Upper South Fork Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|-----------|--|------------------------|---|----------|------|--|-------------------------------------|---------------------------------------|-----------------------|-------------------------|
| UG01-17 | Trowbridge Gulch To Dexter Gulch | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 490,000 | SF | \$1.18 | \$580,000 | \$350,000 | \$100,000 | \$1,000,000 |
| UG01-17 | Trowbridge Gulch To Dexter Gulch | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 3,700 | LF | \$45 | \$170,000 | \$100,000 | \$50,000 | \$320,000 |
| UG01-17 | Trowbridge Gulch To Dexter Gulch | Bioengineering Actions | Current Deflector Sediment Traps | 7.4 | EA | \$1,700 | \$13,000 | \$7,700 | \$75,000 | \$95,000 |
| UG01-17 | Trowbridge Gulch To Dexter Gulch | Bioengineering Actions | Current Deflector Average Cost | 67 | EA | \$1,700 | \$120,000 | \$69,000 | \$35,000 | \$220,000 |
| UG01-18 | Dexter Gulch To Watson Gulch | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 3,000 | LF | \$100 | \$310,000 | \$190,000 | \$94,000 | \$590,000 |
| UG01-18 | Dexter Gulch To Watson Gulch | Bioengineering Actions | Current Deflector Sediment Traps | 6 | EA | \$1,700 | \$10,000 | \$6,300 | \$61,000 | \$77,000 |
| UG01-18 | Dexter Gulch To Watson Gulch | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 3,000 | LF | \$45 | \$140,000 | \$81,000 | \$41,000 | \$260,000 |
| UG01-18 | Dexter Gulch To Watson Gulch | Bioengineering Actions | Current Deflector Average Cost | 54 | EA | \$1,700 | \$93,000 | \$56,000 | \$28,000 | \$180,000 |
| UG01-19 | Watson Gulch To Weyer Gulch, Just Outside Of Wallace | Bioengineering Actions | Current Deflector Average Cost | 6.5 | EA | \$1,700 | \$11,000 | \$6,800 | \$3,400 | \$21,000 |
| UG01-19 | Watson Gulch To Weyer Gulch, Just Outside Of Wallace | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 320 | LF | \$100 | \$33,000 | \$20,000 | \$9,900 | \$63,000 |
| UG01-19 | Watson Gulch To Weyer Gulch, Just Outside Of Wallace | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 28,000 | SF | \$1.18 | \$33,000 | \$20,000 | \$5,700 | \$58,000 |
| UG01-19 | Watson Gulch To Weyer Gulch, Just Outside Of Wallace | Bioengineering Actions | Current Deflector Sediment Traps | 0.70 | EA | \$1,700 | \$1,200 | \$730 | \$7,100 | \$9,000 |
| UG01-19 | Watson Gulch To Weyer Gulch, Just Outside Of Wallace | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 590 | LF | \$45 | \$27,000 | \$16,000 | \$8,000 | \$50,000 |
| UG01-19 | Watson Gulch To Weyer Gulch, Just Outside Of Wallace | Bioengineering Actions | Off-Channel Hydrologic Feature Average Cost | 1,100 | SY | \$37 | \$40,000 | \$24,000 | \$7,000 | \$71,000 |
| UG01-4 | Obrien Gulch To Unnamed Tributary At Mile 29.8 | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 100 | LF | \$45 | \$4,700 | \$2,800 | \$1,400 | \$8,900 |
| UG01-4 | Obrien Gulch To Unnamed Tributary At Mile 29.8 | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 51 | LF | \$100 | \$5,300 | \$3,200 | \$1,600 | \$10,000 |
| UG01-5 | Unnamed Tributary At Ile 29.8 To Daisy Gulch | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 93,000 | SF | \$1.18 | \$110,000 | \$66,000 | \$19,000 | \$200,000 |
| UG01-5 | Unnamed Tributary At Ile 29.8 To Daisy Gulch | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 1,100 | LF | \$45 | \$49,000 | \$30,000 | \$15,000 | \$94,000 |
| UG01-5 | Unnamed Tributary At Ile 29.8 To Daisy Gulch | Bioengineering Actions | Current Deflector Average Cost | 28 | EA | \$1,700 | \$49,000 | \$29,000 | \$15,000 | \$93,000 |

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Table 9
Estimated Costs For Ecological Alternative 3
Upper South Fork Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|-----------|--|------------------------|---|----------|------|------------------------------------|-------------------------------|---------------------------------|--------------------|----------------------|
| UG01-5 | Unnamed Tributary At Ile 29.8 To Daisy Gulch | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 1,100 | LF | \$100 | \$110,000 | \$68,000 | \$34,000 | \$220,000 |
| UG01-5 | Unnamed Tributary At Ile 29.8 To Daisy Gulch | Bioengineering Actions | Current Deflector Sediment Traps | 3.1 | EA | \$1,700 | \$5,400 | \$3,200 | \$31,000 | \$40,000 |
| UG01-6 | Daisy Gulch To Gentle Anne Gulch | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 2,600 | LF | \$45 | \$120,000 | \$71,000 | \$35,000 | \$220,000 |
| UG01-6 | Daisy Gulch To Gentle Anne Gulch | Bioengineering Actions | Current Deflector Average Cost | 27 | EA | \$1,700 | \$48,000 | \$29,000 | \$14,000 | \$91,000 |
| UG01-6 | Daisy Gulch To Gentle Anne Gulch | Bioengineering Actions | Off-Channel Hydrologic Feature Average Cost | 2,300 | SY | \$37 | \$84,000 | \$50,000 | \$15,000 | \$150,000 |
| UG01-6 | Daisy Gulch To Gentle Anne Gulch | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 680,000 | SF | \$1.18 | \$800,000 | \$480,000 | \$140,000 | \$1,400,000 |
| UG01-6 | Daisy Gulch To Gentle Anne Gulch | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 1,400 | LF | \$100 | \$150,000 | \$88,000 | \$44,000 | \$280,000 |
| UG01-6 | Daisy Gulch To Gentle Anne Gulch | Bioengineering Actions | Current Deflector Sediment Traps | 3 | EA | \$1,700 | \$5,200 | \$3,100 | \$30,000 | \$39,000 |
| UG01-7 | Gentle Anne Gulch To Deadman Gulch | Bioengineering Actions | Current Deflector Sediment Traps | 2.6 | EA | \$1,700 | \$4,500 | \$2,700 | \$26,000 | \$33,000 |
| UG01-7 | Gentle Anne Gulch To Deadman Gulch | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 1,500 | LF | \$45 | \$68,000 | \$41,000 | \$20,000 | \$130,000 |
| UG01-7 | Gentle Anne Gulch To Deadman Gulch | Bioengineering Actions | Current Deflector Average Cost | 24 | EA | \$1,700 | \$41,000 | \$25,000 | \$12,000 | \$78,000 |
| UG01-7 | Gentle Anne Gulch To Deadman Gulch | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 810 | LF | \$100 | \$84,000 | \$51,000 | \$25,000 | \$160,000 |
| UG01-7 | Gentle Anne Gulch To Deadman Gulch | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 210,000 | SF | \$1.18 | \$250,000 | \$150,000 | \$43,000 | \$440,000 |
| UG01-8 | Deadman Gulch To Willow Creek | Bioengineering Actions | Current Deflector Average Cost | 7.3 | EA | \$1,700 | \$13,000 | \$7,600 | \$3,800 | \$24,000 |
| UG01-8 | Deadman Gulch To Willow Creek | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 330 | LF | \$100 | \$34,000 | \$20,000 | \$10,000 | \$65,000 |
| UG01-8 | Deadman Gulch To Willow Creek | Bioengineering Actions | Current Deflector Sediment Traps | 0.80 | EA | \$1,700 | \$1,400 | \$840 | \$8,100 | \$10,000 |
| UG01-8 | Deadman Gulch To Willow Creek | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 290 | LF | \$45 | \$13,000 | \$7,800 | \$3,900 | \$25,000 |
| UG01-9 | Willow Creek To Goldhunter Gulch | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 2,700 | LF | \$45 | \$120,000 | \$73,000 | \$36,000 | \$230,000 |
| UG01-9 | Willow Creek To Goldhunter Gulch | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 150,000 | SF | \$1.18 | \$180,000 | \$110,000 | \$32,000 | \$320,000 |

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Table 9
Estimated Costs For Ecological Alternative 3
Upper South Fork Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|--|---|------------------------|--|----------|------|--|-------------------------------------|---------------------------------------|-----------------------|-------------------------|
| UG01-9 | Willow Creek To Goldhunter Gulch | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 1,400 | LF | \$100 | \$150,000 | \$90,000 | \$45,000 | \$290,000 |
| UG01-9 | Willow Creek To Goldhunter Gulch | Bioengineering Actions | Current Deflector Average Cost | 36 | EA | \$1,700 | \$62,000 | \$37,000 | \$19,000 | \$120,000 |
| UG01-9 | Willow Creek To Goldhunter Gulch | Bioengineering Actions | Current Deflector Sediment Traps | 4 | EA | \$1,700 | \$7,000 | \$4,200 | \$40,000 | \$51,000 |
| WAL013 | Granada Mine | Floodplain Waste Rock | Low Permeability Cap | 0.34 | AC | \$190,000 | \$65,000 | \$39,000 | \$8,100 | \$110,000 |
| WAL013 | Granada Mine | Floodplain Waste Rock | Excavation | 1,600 | CY | \$3.40 | \$5,600 | \$3,300 | \$0 | \$8,900 |
| WAL038 | Sf Cda River Impacted Floodplain: No. 1 | Floodplain Sediments | Sediment Excavation | 280,000 | CY | \$13 | \$3,500,000 | \$2,100,000 | \$0 | \$5,600,000 |
| WAL038 | Sf Cda River Impacted Floodplain: No. 1 | Floodplain Sediments | Regional Repository | 280,000 | CY | \$11 | \$3,100,000 | \$1,800,000 | \$610,000 | \$5,500,000 |
| WAL076 | Mary D Claim Workings | Floodplain Waste Rock | Local Repository Above Flood Level | 41,000 | CY | \$12 | \$500,000 | \$300,000 | \$110,000 | \$910,000 |
| WAL076 | Mary D Claim Workings | Floodplain Waste Rock | Excavation | 41,000 | CY | \$3.40 | \$140,000 | \$83,000 | \$0 | \$220,000 |
| Totals for Upper South Fork Watershed . . . | | | | | | | \$65,000,000 | \$39,000,000 | \$11,000,000 | \$110,000,000 |

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Table 10
Estimated Costs For Ecological Alternative 3
Canyon Creek Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|------------|--|-------------------|------------------------------------|----------|------|--|-------------------------------------|---------------------------------------|-----------------------|-------------------------|
| ACCESSCC01 | Road Construction Required To Access Remote Source | General | Temporary Access Road | 1.5 | MI | \$250,000 | \$380,000 | \$230,000 | \$0 | \$600,000 |
| ACCESSCC02 | Road Construction Required To Access Remote Source | General | Temporary Access Road | 1.5 | MI | \$250,000 | \$380,000 | \$230,000 | \$0 | \$600,000 |
| ACCESSCC03 | Road Construction Required To Access Remote Source | General | Temporary Access Road | 1 | MI | \$250,000 | \$250,000 | \$150,000 | \$0 | \$400,000 |
| ACCESSCC04 | Road Construction Required To Access Remote Source | General | Temporary Access Road | 6 | MI | \$250,000 | \$1,500,000 | \$910,000 | \$0 | \$2,400,000 |
| ACCESSCC05 | Road Construction Required To Access Remote Source | General | Temporary Access Road | 0.50 | MI | \$250,000 | \$130,000 | \$76,000 | \$22,000 | \$220,000 |
| BUR066 | Moonlight Mine | Upland Waste Rock | Low Permeability Cap | 0.30 | AC | \$190,000 | \$57,000 | \$34,000 | \$7,100 | \$98,000 |
| BUR066 | Moonlight Mine | Upland Waste Rock | Excavation | 1,400 | CY | \$3.40 | \$4,800 | \$2,900 | \$0 | \$7,600 |
| BUR067 | Tamarack No.7 (1200 Level) | Upland Waste Rock | Local Repository Above Flood Level | 180,000 | CY | \$12 | \$2,100,000 | \$1,300,000 | \$480,000 | \$3,900,000 |
| BUR067 | Tamarack No.7 (1200 Level) | Adit Drainage | Adit Drainage Collection | 1 | LS | \$7,800 | \$7,800 | \$4,700 | \$1,400 | \$14,000 |
| BUR067 | Tamarack No.7 (1200 Level) | Adit Drainage | Media Filter Treatment Plant | 1,400 | GPM | \$1,500 | \$2,100,000 | \$1,600,000 | \$4,200,000 | \$7,900,000 |
| BUR067 | Tamarack No.7 (1200 Level) | Upland Waste Rock | Low Permeability Cap | 4.8 | AC | \$190,000 | \$900,000 | \$540,000 | \$110,000 | \$1,600,000 |
| BUR067 | Tamarack No.7 (1200 Level) | Upland Waste Rock | Excavation | 180,000 | CY | \$3.40 | \$600,000 | \$360,000 | \$0 | \$950,000 |
| BUR067 | Tamarack No.7 (1200 Level) | Upland Tailings | Excavation | 2,500 | CY | \$3.40 | \$8,500 | \$5,100 | \$0 | \$14,000 |
| BUR067 | Tamarack No.7 (1200 Level) | Upland Tailings | Local Repository Above Flood Level | 2,500 | CY | \$12 | \$31,000 | \$18,000 | \$6,900 | \$56,000 |
| BUR068 | Headlight Mine | Upland Waste Rock | Local Repository Above Flood Level | 12,000 | CY | \$12 | \$150,000 | \$88,000 | \$33,000 | \$270,000 |
| BUR068 | Headlight Mine | Upland Waste Rock | Excavation | 12,000 | CY | \$3.40 | \$41,000 | \$24,000 | \$0 | \$65,000 |
| BUR072 | Standard-mammoth No.4 | Upland Waste Rock | Low Permeability Cap | 1.7 | AC | \$190,000 | \$330,000 | \$200,000 | \$41,000 | \$570,000 |
| BUR073 | Standard-mammoth Campbell Adit | Upland Waste Rock | Excavation | 25,000 | CY | \$3.40 | \$86,000 | \$51,000 | \$0 | \$140,000 |
| BUR073 | Standard-mammoth Campbell Adit | Upland Waste Rock | Low Permeability Cap | 5.3 | AC | \$190,000 | \$1,000,000 | \$600,000 | \$130,000 | \$1,700,000 |

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Table 10
Estimated Costs For Ecological Alternative 3
Canyon Creek Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|-----------|----------------------------------|-------------------|------------------------------------|----------|------|--|-------------------------------------|---------------------------------------|-----------------------|-------------------------|
| BUR075 | Sherman 1000 Level (oreano Adit) | Upland Tailings | Local Repository Above Flood Level | 3,500 | CY | \$12 | \$43,000 | \$26,000 | \$9,600 | \$78,000 |
| BUR075 | Sherman 1000 Level (oreano Adit) | Upland Tailings | Excavation | 3,500 | CY | \$3.40 | \$12,000 | \$7,100 | \$0 | \$19,000 |
| BUR087 | Hercules No. 3 | Upland Waste Rock | Low Permeability Cap | 3.9 | AC | \$190,000 | \$740,000 | \$440,000 | \$92,000 | \$1,300,000 |
| BUR087 | Hercules No. 3 | Upland Waste Rock | Excavation | 13,000 | CY | \$3.40 | \$43,000 | \$26,000 | \$0 | \$68,000 |
| BUR088 | Ajax No.2 | Adit Drainage | Permeable Reactive Trench | 10 | CY | \$550 | \$5,500 | \$3,300 | \$33,000 | \$42,000 |
| BUR088 | Ajax No.2 | Adit Drainage | Adit Drainage Collection | 1 | LS | \$7,800 | \$7,800 | \$4,700 | \$1,400 | \$14,000 |
| BUR089 | Idaho And Eastern Mine | Upland Waste Rock | Low Permeability Cap | 0.20 | AC | \$190,000 | \$38,000 | \$23,000 | \$4,800 | \$66,000 |
| BUR089 | Idaho And Eastern Mine | Upland Waste Rock | Excavation | 40 | CY | \$3.40 | \$140 | \$82 | \$0 | \$220 |
| BUR090 | Hercules No. 4 | Upland Waste Rock | Low Permeability Cap | 10 | AC | \$190,000 | \$2,000,000 | \$1,200,000 | \$250,000 | \$3,400,000 |
| BUR090 | Hercules No. 4 | Upland Tailings | Excavation | 30,000 | CY | \$3.40 | \$100,000 | \$61,000 | \$0 | \$160,000 |
| BUR090 | Hercules No. 4 | Upland Tailings | Local Repository Above Flood Level | 30,000 | CY | \$12 | \$370,000 | \$220,000 | \$82,000 | \$670,000 |
| BUR090 | Hercules No. 4 | Upland Waste Rock | Excavation | 11,000 | CY | \$3.40 | \$37,000 | \$22,000 | \$0 | \$60,000 |
| BUR096 | Anchor Mine | Adit Drainage | Permeable Reactive Trench | 10 | CY | \$550 | \$5,500 | \$3,300 | \$33,000 | \$42,000 |
| BUR096 | Anchor Mine | Adit Drainage | Adit Drainage Collection | 1 | LS | \$7,800 | \$7,800 | \$4,700 | \$1,400 | \$14,000 |
| BUR096 | Anchor Mine | Upland Waste Rock | Regrade/Consolidate/Revegetate | 1.4 | AC | \$71,000 | \$100,000 | \$60,000 | \$13,000 | \$170,000 |
| BUR097 | Hidden Treasure Mine | Adit Drainage | Adit Drainage Collection | 1 | LS | \$7,800 | \$7,800 | \$4,700 | \$1,400 | \$14,000 |
| BUR097 | Hidden Treasure Mine | Adit Drainage | Permeable Reactive Trench | 96 | CY | \$550 | \$53,000 | \$32,000 | \$320,000 | \$400,000 |
| BUR097 | Hidden Treasure Mine | Upland Waste Rock | Regrade/Consolidate/Revegetate | 0.87 | AC | \$71,000 | \$61,000 | \$37,000 | \$7,700 | \$110,000 |
| BUR098 | Hercules No. 5 | Upland Waste Rock | Local Repository Above Flood Level | 55,000 | CY | \$12 | \$670,000 | \$400,000 | \$150,000 | \$1,200,000 |

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Table 10
Estimated Costs For Ecological Alternative 3
Canyon Creek Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|-----------|--------------------|-------------------|------------------------------------|----------|------|--|-------------------------------------|---------------------------------------|-----------------------|-------------------------|
| BUR098 | Hercules No. 5 | Adit Drainage | Adit Drainage Collection | 1 | LS | \$7,800 | \$7,800 | \$4,700 | \$1,400 | \$14,000 |
| BUR098 | Hercules No. 5 | Adit Drainage | Media Filter Treatment Plant | 1,300 | GPM | \$1,500 | \$2,000,000 | \$1,500,000 | \$4,000,000 | \$7,600,000 |
| BUR098 | Hercules No. 5 | Upland Waste Rock | Excavation | 55,000 | CY | \$3.40 | \$190,000 | \$110,000 | \$0 | \$300,000 |
| BUR099 | Benton Mine | Adit Drainage | Adit Drainage Collection | 1 | LS | \$7,800 | \$7,800 | \$4,700 | \$1,400 | \$14,000 |
| BUR099 | Benton Mine | Adit Drainage | Permeable Reactive Trench | 10 | CY | \$550 | \$5,500 | \$3,300 | \$33,000 | \$42,000 |
| BUR105 | Oom Paul No. 2 | Upland Waste Rock | Low Permeability Cap | 0.27 | AC | \$190,000 | \$51,000 | \$31,000 | \$6,400 | \$89,000 |
| BUR105 | Oom Paul No. 2 | Upland Waste Rock | Excavation | 6,500 | CY | \$3.40 | \$22,000 | \$13,000 | \$0 | \$35,000 |
| BUR107 | Ajax No.3 | Upland Waste Rock | Low Perm Cap w/Seepage Coll & Trmt | 2.3 | AC | \$210,000 | \$500,000 | \$300,000 | \$110,000 | \$910,000 |
| BUR107 | Ajax No.3 | Adit Drainage | Adit Drainage Collection | 1 | LS | \$7,800 | \$7,800 | \$4,700 | \$1,400 | \$14,000 |
| BUR107 | Ajax No.3 | Upland Waste Rock | Excavation | 28,000 | CY | \$3.40 | \$95,000 | \$57,000 | \$0 | \$150,000 |
| BUR107 | Ajax No.3 | Adit Drainage | Permeable Reactive Trench | 10 | CY | \$550 | \$5,500 | \$3,300 | \$33,000 | \$42,000 |
| BUR109 | Oom Paul No. 1 | Upland Waste Rock | Low Permeability Cap | 1.1 | AC | \$190,000 | \$220,000 | \$130,000 | \$27,000 | \$370,000 |
| BUR109 | Oom Paul No. 1 | Upland Waste Rock | Excavation | 5,500 | CY | \$3.40 | \$19,000 | \$11,000 | \$0 | \$30,000 |
| BUR112 | Gem No.2 | Adit Drainage | Permeable Reactive Trench | 10 | CY | \$550 | \$5,500 | \$3,300 | \$33,000 | \$42,000 |
| BUR112 | Gem No.2 | Adit Drainage | Adit Drainage Collection | 1 | LS | \$7,800 | \$7,800 | \$4,700 | \$1,400 | \$14,000 |
| BUR117 | Frisco Millsite | Upland Tailings | Excavation | 1,800 | CY | \$3.40 | \$6,100 | \$3,700 | \$0 | \$9,800 |
| BUR117 | Frisco Millsite | Upland Waste Rock | Low Permeability Cap | 1.1 | AC | \$190,000 | \$210,000 | \$130,000 | \$26,000 | \$360,000 |
| BUR117 | Frisco Millsite | Upland Tailings | Local Repository Above Flood Level | 1,800 | CY | \$12 | \$22,000 | \$13,000 | \$5,000 | \$40,000 |
| BUR118 | Frisco No.2 & No.1 | Upland Waste Rock | Local Repository Above Flood Level | 33,000 | CY | \$12 | \$400,000 | \$240,000 | \$91,000 | \$740,000 |

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Table 10
Estimated Costs For Ecological Alternative 3
Canyon Creek Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|-----------|---------------------------------------|------------------------|------------------------------------|----------|------|--|-------------------------------------|---------------------------------------|-----------------------|-------------------------|
| BUR118 | Frisco No.2 & No.1 | Upland Waste Rock | Excavation | 33,000 | CY | \$3.40 | \$110,000 | \$67,000 | \$0 | \$180,000 |
| BUR121 | Black Bear Fraction | Upland Waste Rock | Excavation | 21,000 | CY | \$3.40 | \$70,000 | \$42,000 | \$0 | \$110,000 |
| BUR121 | Black Bear Fraction | Adit Drainage | Adit Drainage Collection | 1 | LS | \$7,800 | \$7,800 | \$4,700 | \$1,400 | \$14,000 |
| BUR121 | Black Bear Fraction | Upland Waste Rock | Low Permeability Cap | 2.0 | AC | \$190,000 | \$380,000 | \$230,000 | \$48,000 | \$660,000 |
| BUR121 | Black Bear Fraction | Adit Drainage | Permeable Reactive Trench | 17 | CY | \$550 | \$9,600 | \$5,800 | \$58,000 | \$73,000 |
| BUR122 | Flynn Mine | Upland Waste Rock | Low Permeability Cap | 1.1 | AC | \$190,000 | \$210,000 | \$130,000 | \$27,000 | \$370,000 |
| BUR122 | Flynn Mine | Upland Waste Rock | Excavation | 5,400 | CY | \$3.40 | \$18,000 | \$11,000 | \$0 | \$29,000 |
| BUR128 | Hecla-star Mine & Millsite Complex | Upland Tailings | Local Repository Above Flood Level | 43,000 | CY | \$12 | \$530,000 | \$320,000 | \$120,000 | \$970,000 |
| BUR128 | Hecla-star Mine & Millsite Complex | Upland Tailings | Excavation | 43,000 | CY | \$3.40 | \$150,000 | \$89,000 | \$0 | \$240,000 |
| BUR128 | Hecla-star Mine & Millsite Complex | Adit Drainage | Adit Drainage Collection | 1 | LS | \$7,800 | \$7,800 | \$4,700 | \$1,400 | \$14,000 |
| BUR128 | Hecla-star Mine & Millsite Complex | Buildings & Structures | Decon millsite | 1 | LS | \$130,000 | \$130,000 | \$76,000 | \$6,300 | \$210,000 |
| BUR128 | Hecla-star Mine & Millsite Complex | Adit Drainage | Permeable Reactive Trench | 10 | CY | \$550 | \$5,500 | \$3,300 | \$33,000 | \$42,000 |
| BUR129 | Tiger-poorman Mine | Upland Tailings | Local Repository Above Flood Level | 5,300 | CY | \$12 | \$64,000 | \$38,000 | \$14,000 | \$120,000 |
| BUR129 | Tiger-poorman Mine | Upland Tailings | Excavation | 5,300 | CY | \$3.40 | \$18,000 | \$11,000 | \$0 | \$29,000 |
| BUR129 | Tiger-poorman Mine | Adit Drainage | Permeable Reactive Trench | 10 | CY | \$550 | \$5,500 | \$3,300 | \$33,000 | \$42,000 |
| BUR129 | Tiger-poorman Mine | Adit Drainage | Adit Drainage Collection | 1 | LS | \$7,800 | \$7,800 | \$4,700 | \$1,400 | \$14,000 |
| BUR130 | Marsh Mine | Upland Waste Rock | Excavation | 600 | CY | \$3.40 | \$2,000 | \$1,200 | \$0 | \$3,300 |
| BUR130 | Marsh Mine | Upland Waste Rock | Low Permeability Cap | 2.4 | AC | \$190,000 | \$450,000 | \$270,000 | \$57,000 | \$780,000 |
| BUR132 | Gertie Mine | Upland Waste Rock | Low Permeability Cap | 1.7 | AC | \$190,000 | \$320,000 | \$190,000 | \$40,000 | \$550,000 |

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Table 10
Estimated Costs For Ecological Alternative 3
Canyon Creek Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|-----------|----------------------------------|----------------------|------------------------------------|----------|------|------------------------------------|-------------------------------|---------------------------------|--------------------|----------------------|
| BUR132 | Gertie Mine | Upland Waste Rock | Excavation | 18,000 | CY | \$3.40 | \$63,000 | \$38,000 | \$0 | \$100,000 |
| BUR133 | Russel Mine | Upland Waste Rock | Local Repository Above Flood Level | 5,300 | CY | \$12 | \$65,000 | \$39,000 | \$15,000 | \$120,000 |
| BUR133 | Russel Mine | Upland Waste Rock | Excavation | 5,300 | CY | \$3.40 | \$18,000 | \$11,000 | \$0 | \$29,000 |
| BUR134 | Alcides Prospect & Imperial Mine | Upland Waste Rock | Excavation | 14,000 | CY | \$3.40 | \$49,000 | \$29,000 | \$0 | \$78,000 |
| BUR134 | Alcides Prospect & Imperial Mine | Upland Waste Rock | Local Repository Above Flood Level | 14,000 | CY | \$12 | \$180,000 | \$110,000 | \$40,000 | \$320,000 |
| BUR135 | Sonora Mine | Upland Waste Rock | Low Permeability Cap | 0.58 | AC | \$190,000 | \$110,000 | \$66,000 | \$14,000 | \$190,000 |
| BUR135 | Sonora Mine | Upland Waste Rock | Excavation | 40 | CY | \$3.40 | \$140 | \$82 | \$0 | \$220 |
| BUR141 | Canyon Ck Impacted Floodplain | Floodplain Sediments | Regional Repository | 22,000 | CY | \$20 | \$440,000 | \$270,000 | \$110,000 | \$820,000 |
| BUR141 | Canyon Ck Impacted Floodplain | Floodplain Sediments | Sediment Excavation | 22,000 | CY | \$13 | \$280,000 | \$170,000 | \$0 | \$440,000 |
| BUR142 | Gem Millsite | Upland Tailings | Local Repository Above Flood Level | 2,500 | CY | \$12 | \$30,000 | \$18,000 | \$6,700 | \$55,000 |
| BUR142 | Gem Millsite | Upland Waste Rock | Low Permeability Cap | 3.0 | AC | \$190,000 | \$570,000 | \$340,000 | \$72,000 | \$990,000 |
| BUR142 | Gem Millsite | Upland Tailings | Excavation | 2,500 | CY | \$3.40 | \$8,300 | \$5,000 | \$0 | \$13,000 |
| BUR143 | Canyon Ck Impacted Riparian | Floodplain Sediments | Regional Repository | 32,000 | CY | \$20 | \$650,000 | \$390,000 | \$160,000 | \$1,200,000 |
| BUR143 | Canyon Ck Impacted Riparian | Floodplain Sediments | Sediment Excavation | 32,000 | CY | \$13 | \$400,000 | \$240,000 | \$0 | \$650,000 |
| BUR144 | Standard-mammoth Loading Area | Upland Waste Rock | Excavation | 7,800 | CY | \$3.40 | \$27,000 | \$16,000 | \$0 | \$42,000 |
| BUR144 | Standard-mammoth Loading Area | Upland Waste Rock | Low Permeability Cap | 2.5 | AC | \$190,000 | \$480,000 | \$290,000 | \$60,000 | \$830,000 |
| BUR145 | Oneill Gulch Unnamed Rock Dump | Upland Waste Rock | Excavation | 56,000 | CY | \$3.40 | \$190,000 | \$110,000 | \$0 | \$300,000 |
| BUR145 | Oneill Gulch Unnamed Rock Dump | Upland Waste Rock | Local Repository Above Flood Level | 56,000 | CY | \$12 | \$680,000 | \$410,000 | \$150,000 | \$1,200,000 |
| BUR146 | Gorge Gulch Impacted Riparian | Floodplain Sediments | Regional Repository | 26,000 | CY | \$20 | \$510,000 | \$310,000 | \$130,000 | \$950,000 |

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Table 10
Estimated Costs For Ecological Alternative 3
Canyon Creek Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|-----------|---|-----------------------|----------------------|----------|------|--|-------------------------------------|---------------------------------------|-----------------------|-------------------------|
| BUR146 | Gorge Gulch Impacted Riparian | Floodplain Sediments | Sediment Excavation | 26,000 | CY | \$13 | \$320,000 | \$190,000 | \$0 | \$510,000 |
| BUR149 | Ajax No.2 Adjacent Rock Dump | Upland Waste Rock | Excavation | 2,100 | CY | \$3.40 | \$7,100 | \$4,200 | \$0 | \$11,000 |
| BUR149 | Ajax No.2 Adjacent Rock Dump | Upland Waste Rock | Low Permeability Cap | 0.51 | AC | \$190,000 | \$97,000 | \$58,000 | \$12,000 | \$170,000 |
| BUR150 | Canyon Ck Garbage Dump | Floodplain Waste Rock | Excavation | 6,500 | CY | \$3.40 | \$22,000 | \$13,000 | \$0 | \$35,000 |
| BUR150 | Canyon Ck Garbage Dump | Floodplain Waste Rock | Low Permeability Cap | 1.4 | AC | \$190,000 | \$260,000 | \$160,000 | \$32,000 | \$450,000 |
| BUR153 | Canyon Ck Impacted Floodplain (ccseg02 & | Floodplain Sediments | Regional Repository | 7,800 | CY | \$20 | \$160,000 | \$94,000 | \$39,000 | \$290,000 |
| BUR153 | Canyon Ck Impacted Floodplain (ccseg02 & | Floodplain Sediments | Sediment Excavation | 7,800 | CY | \$13 | \$98,000 | \$59,000 | \$0 | \$160,000 |
| BUR166 | Unnamed Adit | Upland Waste Rock | Low Permeability Cap | 0.33 | AC | \$190,000 | \$63,000 | \$38,000 | \$7,800 | \$110,000 |
| BUR166 | Unnamed Adit | Upland Waste Rock | Excavation | 40 | CY | \$3.40 | \$140 | \$82 | \$0 | \$220 |
| BUR176 | Unnamed Adit | Upland Waste Rock | Low Permeability Cap | 0.56 | AC | \$190,000 | \$110,000 | \$64,000 | \$13,000 | \$180,000 |
| BUR176 | Unnamed Adit | Upland Waste Rock | Excavation | 40 | CY | \$3.40 | \$140 | \$82 | \$0 | \$220 |
| BUR177 | Joe Matt Mine | Upland Waste Rock | Excavation | 40 | CY | \$3.40 | \$140 | \$82 | \$0 | \$220 |
| BUR177 | Joe Matt Mine | Upland Waste Rock | Low Permeability Cap | 0.68 | AC | \$190,000 | \$130,000 | \$78,000 | \$16,000 | \$220,000 |
| BUR178 | West Hecla Mine | Upland Waste Rock | Low Permeability Cap | 0.46 | AC | \$190,000 | \$88,000 | \$53,000 | \$11,000 | \$150,000 |
| BUR178 | West Hecla Mine | Upland Waste Rock | Excavation | 2,200 | CY | \$3.40 | \$7,500 | \$4,500 | \$0 | \$12,000 |
| BUR180 | Stanley Mine | Upland Waste Rock | Low Permeability Cap | 0.23 | AC | \$190,000 | \$44,000 | \$26,000 | \$5,500 | \$75,000 |
| BUR180 | Stanley Mine | Upland Waste Rock | Excavation | 1,100 | CY | \$3.40 | \$3,700 | \$2,200 | \$0 | \$6,000 |
| BUR185 | West Mammoth Mine | Upland Waste Rock | Low Permeability Cap | 0.31 | AC | \$190,000 | \$59,000 | \$35,000 | \$7,400 | \$100,000 |
| BUR185 | West Mammoth Mine | Upland Waste Rock | Excavation | 40 | CY | \$3.40 | \$140 | \$82 | \$0 | \$220 |

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Table 10
Estimated Costs For Ecological Alternative 3
Canyon Creek Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|-----------|---|------------------------|---|----------|------|--|-------------------------------------|---------------------------------------|-----------------------|-------------------------|
| BUR187 | Unnamed Adit | Upland Waste Rock | Excavation | 40 | CY | \$3.40 | \$140 | \$82 | \$0 | \$220 |
| BUR187 | Unnamed Adit | Upland Waste Rock | Low Permeability Cap | 0.25 | AC | \$190,000 | \$48,000 | \$29,000 | \$5,900 | \$82,000 |
| BUR189 | Duluth Mine Canyon Ck | Upland Waste Rock | Low Permeability Cap | 0.20 | AC | \$190,000 | \$38,000 | \$23,000 | \$4,800 | \$66,000 |
| BUR189 | Duluth Mine Canyon Ck | Upland Waste Rock | Excavation | 40 | CY | \$3.40 | \$140 | \$82 | \$0 | \$220 |
| BUR190 | Gem No.3 | Adit Drainage | Media Filter Treatment Plant | 450 | GPM | \$1,500 | \$670,000 | \$500,000 | \$1,300,000 | \$2,500,000 |
| BUR190 | Gem No.3 | Adit Drainage | Adit Drainage Collection | 1 | LS | \$7,800 | \$7,800 | \$4,700 | \$1,400 | \$14,000 |
| BUR191 | Frisco No.3 | Upland Waste Rock | Regrade/Consolidate/Revegetate | 1.6 | AC | \$71,000 | \$110,000 | \$66,000 | \$14,000 | \$190,000 |
| BUR192 | Black Bear Millsite | Upland Waste Rock | Excavation | 5,400 | CY | \$3.40 | \$18,000 | \$11,000 | \$0 | \$29,000 |
| BUR192 | Black Bear Millsite | Floodplain Tailings | Excavation | 3,100 | CY | \$3.40 | \$11,000 | \$6,300 | \$0 | \$17,000 |
| BUR192 | Black Bear Millsite | Upland Waste Rock | Low Permeability Cap | 1.1 | AC | \$190,000 | \$210,000 | \$130,000 | \$27,000 | \$370,000 |
| BUR192 | Black Bear Millsite | Floodplain Tailings | Local Repository Above Flood Level | 3,100 | CY | \$12 | \$38,000 | \$23,000 | \$8,500 | \$69,000 |
| BUR204 | Unnamed Rock Dump | Upland Waste Rock | Excavation | 40 | CY | \$3.40 | \$140 | \$82 | \$0 | \$220 |
| BUR204 | Unnamed Rock Dump | Upland Waste Rock | Low Permeability Cap | 0.19 | AC | \$190,000 | \$36,000 | \$22,000 | \$4,500 | \$62,000 |
| CC02-1 | Oom Paul No. 1 Mine Site To Gorge Gulch | Bioengineering Actions | Current Deflector Sediment Traps | 6.6 | EA | \$1,700 | \$11,000 | \$6,900 | \$67,000 | \$85,000 |
| CC02-1 | Oom Paul No. 1 Mine Site To Gorge Gulch | Bioengineering Actions | Current Deflector Average Cost | 60 | EA | \$1,700 | \$100,000 | \$62,000 | \$31,000 | \$200,000 |
| CC02-1 | Oom Paul No. 1 Mine Site To Gorge Gulch | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 3,300 | LF | \$45 | \$150,000 | \$90,000 | \$45,000 | \$290,000 |
| CC02-1 | Oom Paul No. 1 Mine Site To Gorge Gulch | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 670,000 | SF | \$1.18 | \$790,000 | \$470,000 | \$140,000 | \$1,400,000 |
| CC02-1 | Oom Paul No. 1 Mine Site To Gorge Gulch | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 2,000 | LF | \$100 | \$210,000 | \$120,000 | \$62,000 | \$400,000 |
| CC04-1 | Gorge Gulch To West Bell Mine Site | Bioengineering Actions | Current Deflector Sediment Traps | 20 | EA | \$1,700 | \$35,000 | \$21,000 | \$200,000 | \$260,000 |

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Table 10
Estimated Costs For Ecological Alternative 3
Canyon Creek Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|------------|---|----------------------------|---|-----------|------|------------------------------------|-------------------------------|---------------------------------|--------------------|----------------------|
| CC04-1 | Gorge Gulch To West Bell Mine Site | Bioengineering Actions | Current Deflector Average Cost | 180 | EA | \$1,700 | \$310,000 | \$190,000 | \$94,000 | \$590,000 |
| CC04-1 | Gorge Gulch To West Bell Mine Site | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 10,000 | LF | \$45 | \$450,000 | \$270,000 | \$140,000 | \$860,000 |
| CC04-1 | Gorge Gulch To West Bell Mine Site | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 6,000 | LF | \$100 | \$630,000 | \$380,000 | \$190,000 | \$1,200,000 |
| CC04-1 | Gorge Gulch To West Bell Mine Site | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 380,000 | SF | \$1.18 | \$450,000 | \$270,000 | \$79,000 | \$800,000 |
| CC05-1 | West Bell Mine Site To Unnamed Creek | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 1,100 | LF | \$45 | \$50,000 | \$30,000 | \$15,000 | \$96,000 |
| CC05-1 | West Bell Mine Site To Unnamed Creek | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 670 | LF | \$100 | \$70,000 | \$42,000 | \$21,000 | \$130,000 |
| CC05-1 | West Bell Mine Site To Unnamed Creek | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 690,000 | SF | \$1.18 | \$810,000 | \$490,000 | \$140,000 | \$1,400,000 |
| CC05-1 | West Bell Mine Site To Unnamed Creek | Bioengineering Actions | Current Deflector Sediment Traps | 1 | EA | \$1,700 | \$1,700 | \$1,000 | \$10,000 | \$13,000 |
| CC05-1 | West Bell Mine Site To Unnamed Creek | Bioengineering Actions | Current Deflector Average Cost | 10 | EA | \$1,700 | \$17,000 | \$10,000 | \$5,200 | \$33,000 |
| CC05-2 | Unnamed Creek To The South Fork Coeur D'alene River | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 6,700 | LF | \$45 | \$300,000 | \$180,000 | \$91,000 | \$580,000 |
| CC05-2 | Unnamed Creek To The South Fork Coeur D'alene River | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 1,300,000 | SF | \$1.18 | \$1,600,000 | \$960,000 | \$280,000 | \$2,800,000 |
| CC05-2 | Unnamed Creek To The South Fork Coeur D'alene River | Bioengineering Actions | Channel Realignment | 90,000 | SY | \$37 | \$3,300,000 | \$2,000,000 | \$570,000 | \$5,800,000 |
| CC05-2 | Unnamed Creek To The South Fork Coeur D'alene River | Bioengineering Actions | Current Deflector Sediment Traps | 7 | EA | \$1,700 | \$12,000 | \$7,300 | \$71,000 | \$90,000 |
| CC05-2 | Unnamed Creek To The South Fork Coeur D'alene River | Bioengineering Actions | Current Deflector Average Cost | 60 | EA | \$1,700 | \$100,000 | \$63,000 | \$31,000 | \$200,000 |
| CC05-2 | Unnamed Creek To The South Fork Coeur D'alene River | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 4,000 | LF | \$100 | \$420,000 | \$250,000 | \$130,000 | \$800,000 |
| CSMCC05-1 | Rr Embankment Along Ccseg05 | Floodplain Artificial Fill | Local Repository Above Flood Level | 200,000 | CY | \$12 | \$2,400,000 | \$1,500,000 | \$550,000 | \$4,500,000 |
| CSMCC05-1 | Rr Embankment Along Ccseg05 | Floodplain Artificial Fill | Excavation | 200,000 | CY | \$3.40 | \$680,000 | \$410,000 | \$0 | \$1,100,000 |
| HHWPCC04-1 | Upland Waste Pile W/human Health Exposure | Upland Waste Rock | Cover waste pile | 1 | AC | \$54,000 | \$54,000 | \$33,000 | \$6,800 | \$93,000 |
| HHWPCC04-2 | Upland Waste Pile W/human Health Exposure | Upland Waste Rock | Cover waste pile | 1 | AC | \$54,000 | \$54,000 | \$33,000 | \$6,800 | \$93,000 |

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Table 10
Estimated Costs For Ecological Alternative 3
Canyon Creek Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|------------|---|----------------------|--|----------|-------|------------------------------------|-------------------------------|---------------------------------|--------------------|----------------------|
| HHWPCC04-3 | Upland Waste Pile W/human Health Exposure | Upland Waste Rock | Cover waste pile | 1 | AC | \$54,000 | \$54,000 | \$33,000 | \$6,800 | \$93,000 |
| LHAULCC02 | Hauling To Local Repository | General | Haul to Local Repository, 1/2 Mile One Way | 38,000 | CY-MI | \$1.12 | \$42,000 | \$25,000 | \$0 | \$68,000 |
| LHAULCC03 | Hauling To Local Repository | General | Haul to Local Repository, 1/2 Mile One Way | 15,000 | CY-MI | \$1.12 | \$17,000 | \$10,000 | \$0 | \$27,000 |
| LHAULCC04 | Hauling To Local Repository | General | Haul to Local Repository, 1/2 Mile One Way | 170,000 | CY-MI | \$1.12 | \$190,000 | \$110,000 | \$0 | \$300,000 |
| LHAULCC05 | Hauling To Local Repository | General | Haul to Local Repository, 1/2 Mile One Way | 110,000 | CY-MI | \$1.12 | \$130,000 | \$76,000 | \$0 | \$200,000 |
| OSB047 | Canyon Ck Formosa Reach Svnrt Rehab | Floodplain Sediments | Sediment Excavation | 14,000 | CY | \$13 | \$180,000 | \$110,000 | \$0 | \$280,000 |
| OSB047 | Canyon Ck Formosa Reach Svnrt Rehab | Floodplain Sediments | Regional Repository | 14,000 | CY | \$20 | \$280,000 | \$170,000 | \$70,000 | \$520,000 |
| OSB047 | Canyon Ck Formosa Reach Svnrt Rehab | Groundwater | Media Filter Treatment Plant | 200 | GPM | \$1,500 | \$290,000 | \$220,000 | \$590,000 | \$1,100,000 |
| OSB047 | Canyon Ck Formosa Reach Svnrt Rehab | Floodplain Sediments | Hydraulic Isolation Using Slurry Wall | 3,000 | LF | \$350 | \$1,100,000 | \$640,000 | \$420,000 | \$2,100,000 |
| PIPECC04 | Pipeline To Active Treatment | General | Conveyance Pipeline-12" | 19,000 | LF | \$73 | \$1,400,000 | \$850,000 | \$110,000 | \$2,400,000 |
| PIPECC05 | Pipeline To Active Treatment | General | Conveyance Pipeline-12" | 16,000 | LF | \$73 | \$1,200,000 | \$710,000 | \$88,000 | \$2,000,000 |
| RHAULCC02 | Hauling To Regional Repository | General | Haul to Regional Repository | 62,000 | CY-MI | \$1.12 | \$70,000 | \$42,000 | \$0 | \$110,000 |
| RHAULCC03 | Hauling To Regional Repository | General | Haul to Regional Repository | 200,000 | CY-MI | \$1.12 | \$230,000 | \$140,000 | \$0 | \$370,000 |
| RHAULCC04 | Hauling To Regional Repository | General | Haul to Regional Repository | 270,000 | CY-MI | \$1.12 | \$300,000 | \$180,000 | \$0 | \$480,000 |
| RHAULCC05 | Hauling To Regional Repository | General | Haul to Regional Repository | 56,000 | CY-MI | \$1.12 | \$62,000 | \$37,000 | \$0 | \$100,000 |
| THO023 | Unnamed Adit | Upland Waste Rock | Low Permeability Cap | 0.19 | AC | \$190,000 | \$36,000 | \$22,000 | \$4,500 | \$62,000 |
| THO023 | Unnamed Adit | Upland Waste Rock | Excavation | 40 | CY | \$3.40 | \$140 | \$82 | \$0 | \$220 |
| WAL009 | Hecla-star Tailings Ponds | Floodplain Sediments | Hydraulic Isolation Using Slurry Wall | 13,000 | LF | \$350 | \$4,600,000 | \$2,800,000 | \$1,800,000 | \$9,200,000 |
| WAL009 | Hecla-star Tailings Ponds | Floodplain Tailings | Tailings Impoundment Closure | 62 | AC | \$210,000 | \$13,000,000 | \$7,900,000 | \$2,600,000 | \$24,000,000 |

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Table 10
Estimated Costs For Ecological Alternative 3
Canyon Creek Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|-----------|--|----------------------|---|----------|------|------------------------------------|-------------------------------|---------------------------------|--------------------|----------------------|
| WAL009 | Hecla-star Tailings Ponds | Groundwater | Media Filter Treatment Plant | 22 | GPM | \$1,500 | \$34,000 | \$25,000 | \$67,000 | \$130,000 |
| WAL010 | Canyon Ck Pond Reach Svnrt Rehab | Floodplain Sediments | Hydraulic Isolation Using Slurry Wall | 4,000 | LF | \$350 | \$1,400,000 | \$850,000 | \$560,000 | \$2,800,000 |
| WAL010 | Canyon Ck Pond Reach Svnrt Rehab | Floodplain Sediments | Regional Repository | 4,100 | CY | \$20 | \$82,000 | \$49,000 | \$20,000 | \$150,000 |
| WAL010 | Canyon Ck Pond Reach Svnrt Rehab | Floodplain Sediments | Sediment Excavation | 4,100 | CY | \$13 | \$51,000 | \$31,000 | \$0 | \$82,000 |
| WAL010 | Canyon Ck Pond Reach Svnrt Rehab | Groundwater | Media Filter Treatment Plant | 260 | GPM | \$1,500 | \$390,000 | \$290,000 | \$780,000 | \$1,500,000 |
| WAL011 | Canyon Silver (formosa) Mine | Floodplain Sediments | Regional Repository | 8,800 | CY | \$20 | \$180,000 | \$110,000 | \$44,000 | \$330,000 |
| WAL011 | Canyon Silver (formosa) Mine | Floodplain Sediments | Sediment Excavation | 8,800 | CY | \$13 | \$110,000 | \$67,000 | \$0 | \$180,000 |
| WAL011 | Canyon Silver (formosa) Mine | Adit Drainage | Adit Drainage Collection | 1 | LS | \$7,800 | \$7,800 | \$4,700 | \$1,400 | \$14,000 |
| WAL011 | Canyon Silver (formosa) Mine | Upland Tailings | Local Repository Above Flood Level | 12,000 | CY | \$12 | \$140,000 | \$85,000 | \$32,000 | \$260,000 |
| WAL011 | Canyon Silver (formosa) Mine | Adit Drainage | Permeable Reactive Trench | 10 | CY | \$550 | \$5,500 | \$3,300 | \$33,000 | \$42,000 |
| WAL011 | Canyon Silver (formosa) Mine | Upland Tailings | Excavation | 12,000 | CY | \$3.40 | \$39,000 | \$24,000 | \$0 | \$63,000 |
| WAL039 | Standard-mammoth Millsite | Upland Tailings | Excavation | 13,000 | CY | \$3.40 | \$43,000 | \$26,000 | \$0 | \$68,000 |
| WAL039 | Standard-mammoth Millsite | Upland Tailings | Local Repository Above Flood Level | 13,000 | CY | \$12 | \$150,000 | \$92,000 | \$34,000 | \$280,000 |
| WAL040 | Canyon Ck Impacted Floodplain | Surface Water | Streamflow treatment in treatment ponds | 1 | LS | \$12,000,000 | \$12,000,000 | \$7,100,000 | \$23,000,000 | \$41,000,000 |
| WAL040 | Canyon Ck Impacted Floodplain | Groundwater | Media Filter Treatment Plant | 130 | GPM | \$1,500 | \$200,000 | \$150,000 | \$390,000 | \$730,000 |
| WAL040 | Canyon Ck Impacted Floodplain | Floodplain Sediments | Sediment Excavation | 13,000 | CY | \$13 | \$160,000 | \$98,000 | \$0 | \$260,000 |
| WAL040 | Canyon Ck Impacted Floodplain | Floodplain Sediments | Hydraulic Isolation Using Slurry Wall | 2,000 | LF | \$350 | \$710,000 | \$420,000 | \$280,000 | \$1,400,000 |
| WAL040 | Canyon Ck Impacted Floodplain | Floodplain Sediments | Regional Repository | 13,000 | CY | \$20 | \$260,000 | \$160,000 | \$65,000 | \$480,000 |
| WAL041 | Canyon Ck Repository Reach Svnrt Rehab | Floodplain Sediments | Regional Repository | 16,000 | CY | \$20 | \$320,000 | \$190,000 | \$80,000 | \$590,000 |

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Table 10
Estimated Costs For Ecological Alternative 3
Canyon Creek Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|--|---|----------------------------|---------------------------------------|----------|------|--|-------------------------------------|---------------------------------------|-----------------------|-------------------------|
| WAL041 | Canyon Ck Repository Reach Svnrt Rehab | Seep | Permeable Reactive Trench | 110 | CY | \$550 | \$60,000 | \$36,000 | \$360,000 | \$460,000 |
| WAL041 | Canyon Ck Repository Reach Svnrt Rehab | Groundwater | Media Filter Treatment Plant | 330 | GPM | \$1,500 | \$490,000 | \$370,000 | \$980,000 | \$1,800,000 |
| WAL041 | Canyon Ck Repository Reach Svnrt Rehab | Floodplain Sediments | Hydraulic Isolation Using Slurry Wall | 5,000 | LF | \$350 | \$1,800,000 | \$1,100,000 | \$710,000 | \$3,500,000 |
| WAL041 | Canyon Ck Repository Reach Svnrt Rehab | Floodplain Sediments | Sediment Excavation | 16,000 | CY | \$13 | \$200,000 | \$120,000 | \$0 | \$320,000 |
| WAL042 | Canyon Ck Tailings Repository Svnrt | Floodplain Tailings | Tailings Impoundment Closure | 5.2 | AC | \$210,000 | \$1,100,000 | \$660,000 | \$220,000 | \$2,000,000 |
| WAL081 | Wallace Old Private Landfill | Floodplain Artificial Fill | Excavation | 2,900 | CY | \$3.40 | \$9,700 | \$5,800 | \$0 | \$16,000 |
| WAL081 | Wallace Old Private Landfill | Floodplain Artificial Fill | Local Repository Above Flood Level | 2,900 | CY | \$12 | \$35,000 | \$21,000 | \$7,800 | \$64,000 |
| Totals for Canyon Creek Watershed . . . | | | | | | | \$84,000,000 | \$51,000,000 | \$49,000,000 | \$180,000,000 |

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Table 11
Estimated Costs For Ecological Alternative 3
Nine Mile Creek Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|------------|---|----------------------|------------------------------------|----------|------|--|-------------------------------------|---------------------------------------|-----------------------|-------------------------|
| ACCESSNM01 | Road Construction Required To Access Remote Source | General | Temporary Access Road | 0.50 | MI | \$250,000 | \$130,000 | \$76,000 | \$0 | \$200,000 |
| ACCESSNM02 | Road Construction Required To Access Remote Source | General | Temporary Access Road | 2.5 | MI | \$250,000 | \$630,000 | \$380,000 | \$0 | \$1,000,000 |
| ACCESSNM03 | Road Construction Required To Access Remote Source | General | Temporary Access Road | 0.50 | MI | \$250,000 | \$130,000 | \$76,000 | \$0 | \$200,000 |
| ACCESSNM04 | Road Construction Required To Access Remote Source | General | Temporary Access Road | 0.50 | MI | \$250,000 | \$130,000 | \$76,000 | \$0 | \$200,000 |
| BUR051 | Sunset Mine | Adit Drainage | Adit Drainage Collection | 1 | LS | \$7,800 | \$7,800 | \$4,700 | \$1,400 | \$14,000 |
| BUR051 | Sunset Mine | Adit Drainage | Permeable Reactive Trench | 10 | CY | \$550 | \$5,500 | \$3,300 | \$33,000 | \$42,000 |
| BUR052 | Little Sunset Mine | Upland Waste Rock | Low Permeability Cap | 0.16 | AC | \$190,000 | \$30,000 | \$18,000 | \$3,800 | \$53,000 |
| BUR052 | Little Sunset Mine | Upland Waste Rock | Excavation | 800 | CY | \$3.40 | \$2,700 | \$1,600 | \$0 | \$4,400 |
| BUR053 | Interstate-callahan Mine/rock Dumps | Upland Waste Rock | Low Perm Cap w/Seepage Coll & Trmt | 8.5 | AC | \$210,000 | \$1,800,000 | \$1,100,000 | \$410,000 | \$3,300,000 |
| BUR053 | Interstate-callahan Mine/rock Dumps | Upland Waste Rock | Excavation | 690,000 | CY | \$3.40 | \$2,400,000 | \$1,400,000 | \$0 | \$3,800,000 |
| BUR054 | Rex No.2 / Sixteen-to-one Mine | Upland Waste Rock | Low Permeability Cap | 21 | AC | \$190,000 | \$4,100,000 | \$2,400,000 | \$510,000 | \$7,000,000 |
| BUR054 | Rex No.2 / Sixteen-to-one Mine | Upland Tailings | Tailings Impoundment Closure | 2.5 | AC | \$210,000 | \$540,000 | \$320,000 | \$110,000 | \$960,000 |
| BUR054 | Rex No.2 / Sixteen-to-one Mine | Adit Drainage | Permeable Reactive Trench | 10 | CY | \$550 | \$5,500 | \$3,300 | \$33,000 | \$42,000 |
| BUR054 | Rex No.2 / Sixteen-to-one Mine | Adit Drainage | Adit Drainage Collection | 1 | LS | \$7,800 | \$7,800 | \$4,700 | \$1,400 | \$14,000 |
| BUR055 | Interstate Millsite | Upland Tailings | Local Repository Above Flood Level | 14,000 | CY | \$12 | \$170,000 | \$100,000 | \$38,000 | \$310,000 |
| BUR055 | Interstate Millsite | Floodplain Sediments | Regional Repository | 5,500 | CY | \$20 | \$110,000 | \$67,000 | \$28,000 | \$210,000 |
| BUR055 | Interstate Millsite | Floodplain Sediments | Sediment Excavation | 5,500 | CY | \$13 | \$69,000 | \$42,000 | \$0 | \$110,000 |
| BUR056 | Tamarack Rock Dumps | Upland Waste Rock | Regrade/Consolidate/Revegetate | 13 | AC | \$140,000 | \$1,800,000 | \$1,100,000 | \$230,000 | \$3,200,000 |
| BUR058 | Tamarack No.3 | Adit Drainage | Permeable Reactive Trench | 10 | CY | \$550 | \$5,500 | \$3,300 | \$33,000 | \$42,000 |

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Table 11
Estimated Costs For Ecological Alternative 3
Nine Mile Creek Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|-----------|--|------------------------|---|----------|-------|------------------------------------|-------------------------------|---------------------------------|--------------------|----------------------|
| BUR058 | Tamarack No.3 | Adit Drainage | Adit Drainage Collection | 1 | LS | \$7,800 | \$7,800 | \$4,700 | \$1,400 | \$14,000 |
| BUR139 | Rex No.1 | Upland Waste Rock | Low Permeability Cap | 1.3 | AC | \$190,000 | \$250,000 | \$150,000 | \$31,000 | \$430,000 |
| BUR140 | Ninemile Creek Impacted Floodplain | Floodplain Sediments | Regional Repository | 10,000 | CY | \$20 | \$200,000 | \$120,000 | \$50,000 | \$370,000 |
| BUR140 | Ninemile Creek Impacted Floodplain | Floodplain Sediments | Sediment Excavation | 10,000 | CY | \$13 | \$130,000 | \$76,000 | \$0 | \$200,000 |
| BUR160 | Interstate-callahan Lower Rock Dumps | Upland Waste Rock | Low Perm Cap w/Seepage Coll & Trmt | 4.2 | AC | \$210,000 | \$900,000 | \$540,000 | \$200,000 | \$1,600,000 |
| BUR170 | Tamarack 400 Level | Adit Drainage | Permeable Reactive Trench | 10 | CY | \$550 | \$5,500 | \$3,300 | \$33,000 | \$42,000 |
| BUR170 | Tamarack 400 Level | Adit Drainage | Adit Drainage Collection | 1 | LS | \$7,800 | \$7,800 | \$4,700 | \$1,400 | \$14,000 |
| BUR170 | Tamarack 400 Level | Upland Waste Rock | Low Permeability Cap | 0.95 | AC | \$190,000 | \$180,000 | \$110,000 | \$23,000 | \$310,000 |
| BUR171 | Tamarack No.5 | Adit Drainage | Adit Drainage Collection | 1 | LS | \$7,800 | \$7,800 | \$4,700 | \$1,400 | \$14,000 |
| BUR171 | Tamarack No.5 | Adit Drainage | Permeable Reactive Trench | 10 | CY | \$550 | \$5,500 | \$3,300 | \$33,000 | \$42,000 |
| BUR171 | Tamarack No.5 | Upland Waste Rock | Low Permeability Cap | 0.66 | AC | \$190,000 | \$130,000 | \$75,000 | \$16,000 | \$220,000 |
| BUR172 | Tamarack Unnamed Adit | Upland Waste Rock | Low Permeability Cap | 0.43 | AC | \$190,000 | \$82,000 | \$49,000 | \$10,000 | \$140,000 |
| LHAULNM02 | Hauling To Local Repository | General | Haul to Local Repository, 1/2 Mile One Way | 7,000 | CY-MI | \$1.12 | \$7,900 | \$4,700 | \$0 | \$13,000 |
| LHAULNM04 | Hauling To Local Repository | General | Haul to Local Repository, 1/2 Mile One Way | 26,000 | CY-MI | \$1.12 | \$29,000 | \$17,000 | \$0 | \$46,000 |
| NM01-1 | Headwaters Of East Fork Ninemile Creek To Interstate | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 4,000 | LF | \$100 | \$420,000 | \$250,000 | \$130,000 | \$800,000 |
| NM01-1 | Headwaters Of East Fork Ninemile Creek To Interstate | Bioengineering Actions | Current Deflector Average Cost | 48 | EA | \$1,700 | \$83,000 | \$50,000 | \$25,000 | \$160,000 |
| NM01-1 | Headwaters Of East Fork Ninemile Creek To Interstate | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 4,000 | LF | \$45 | \$180,000 | \$110,000 | \$55,000 | \$350,000 |
| NM01-1 | Headwaters Of East Fork Ninemile Creek To Interstate | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 200,000 | SF | \$1.18 | \$240,000 | \$140,000 | \$42,000 | \$420,000 |
| NM01-1 | Headwaters Of East Fork Ninemile Creek To Interstate | Bioengineering Actions | Current Deflector Sediment Traps | 5 | EA | \$1,700 | \$8,700 | \$5,200 | \$50,000 | \$64,000 |

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Table 11
Estimated Costs For Ecological Alternative 3
Nine Mile Creek Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|-----------|---|------------------------|---|----------|------|------------------------------------|-------------------------------|---------------------------------|--------------------|----------------------|
| NM02-1 | Interstate Mill Site On The East Fork To The Mainstem | Bioengineering Actions | Current Deflector Sediment Traps | 10 | EA | \$1,700 | \$17,000 | \$10,000 | \$100,000 | \$130,000 |
| NM02-1 | Interstate Mill Site On The East Fork To The Mainstem | Bioengineering Actions | Current Deflector Average Cost | 90 | EA | \$1,700 | \$160,000 | \$94,000 | \$47,000 | \$300,000 |
| NM02-1 | Interstate Mill Site On The East Fork To The Mainstem | Bioengineering Actions | Off-Channel Hydrologic Feature Average Cost | 350 | SY | \$37 | \$13,000 | \$7,600 | \$2,200 | \$23,000 |
| NM02-1 | Interstate Mill Site On The East Fork To The Mainstem | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 7,600 | LF | \$45 | \$340,000 | \$210,000 | \$100,000 | \$650,000 |
| NM02-1 | Interstate Mill Site On The East Fork To The Mainstem | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 7,600 | LF | \$100 | \$790,000 | \$470,000 | \$240,000 | \$1,500,000 |
| NM02-1 | Interstate Mill Site On The East Fork To The Mainstem | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 380,000 | SF | \$1.18 | \$450,000 | \$270,000 | \$78,000 | \$790,000 |
| NM03-1 | Headwaters Of Ninemile Creek To Confluence With | Bioengineering Actions | Off-Channel Hydrologic Feature Average Cost | 1,300 | SY | \$37 | \$48,000 | \$29,000 | \$8,400 | \$85,000 |
| NM03-1 | Headwaters Of Ninemile Creek To Confluence With | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 3,200 | LF | \$45 | \$150,000 | \$88,000 | \$44,000 | \$280,000 |
| NM03-1 | Headwaters Of Ninemile Creek To Confluence With | Bioengineering Actions | Current Deflector Sediment Traps | 4 | EA | \$1,700 | \$7,000 | \$4,200 | \$40,000 | \$51,000 |
| NM03-1 | Headwaters Of Ninemile Creek To Confluence With | Bioengineering Actions | Current Deflector Average Cost | 33 | EA | \$1,700 | \$57,000 | \$34,000 | \$17,000 | \$110,000 |
| NM03-1 | Headwaters Of Ninemile Creek To Confluence With | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 460,000 | SF | \$1.18 | \$550,000 | \$330,000 | \$96,000 | \$970,000 |
| NM04-1 | Mainstem Ninemile Creek To Black Cloud Creek | Bioengineering Actions | Current Deflector Sediment Traps | 3 | EA | \$1,700 | \$5,200 | \$3,100 | \$30,000 | \$39,000 |
| NM04-1 | Mainstem Ninemile Creek To Black Cloud Creek | Bioengineering Actions | Current Deflector Average Cost | 25 | EA | \$1,700 | \$43,000 | \$26,000 | \$13,000 | \$83,000 |
| NM04-1 | Mainstem Ninemile Creek To Black Cloud Creek | Bioengineering Actions | Channel Realignment | 28,000 | SY | \$37 | \$1,000,000 | \$600,000 | \$180,000 | \$1,800,000 |
| NM04-1 | Mainstem Ninemile Creek To Black Cloud Creek | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 2,100 | LF | \$100 | \$220,000 | \$130,000 | \$65,000 | \$410,000 |
| NM04-1 | Mainstem Ninemile Creek To Black Cloud Creek | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 2,100 | LF | \$45 | \$94,000 | \$56,000 | \$28,000 | \$180,000 |
| NM04-1 | Mainstem Ninemile Creek To Black Cloud Creek | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 150,000 | SF | \$1.18 | \$170,000 | \$100,000 | \$30,000 | \$300,000 |
| NM04-1 | Mainstem Ninemile Creek To Black Cloud Creek | Bioengineering Actions | Off-Channel Hydrologic Feature Average Cost | 2,000 | SY | \$37 | \$72,000 | \$43,000 | \$13,000 | \$130,000 |
| NM04-2 | Black Cloud Creek To Silver Star Mine | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 720 | LF | \$45 | \$33,000 | \$20,000 | \$9,800 | \$62,000 |

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Table 11
Estimated Costs For Ecological Alternative 3
Nine Mile Creek Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|-----------|--|------------------------|---|----------|------|--|-------------------------------------|---------------------------------------|-----------------------|-------------------------|
| NM04-2 | Black Cloud Creek To Silver Star Mine | Bioengineering Actions | Channel Realignment | 9,600 | SY | \$37 | \$350,000 | \$210,000 | \$61,000 | \$620,000 |
| NM04-2 | Black Cloud Creek To Silver Star Mine | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 140,000 | SF | \$1.18 | \$170,000 | \$100,000 | \$30,000 | \$300,000 |
| NM04-2 | Black Cloud Creek To Silver Star Mine | Bioengineering Actions | Current Deflector Average Cost | 9 | EA | \$1,700 | \$16,000 | \$9,400 | \$4,700 | \$30,000 |
| NM04-2 | Black Cloud Creek To Silver Star Mine | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 720 | LF | \$100 | \$75,000 | \$45,000 | \$22,000 | \$140,000 |
| NM04-2 | Black Cloud Creek To Silver Star Mine | Bioengineering Actions | Current Deflector Sediment Traps | 1 | EA | \$1,700 | \$1,700 | \$1,000 | \$10,000 | \$13,000 |
| NM04-3 | Silver Star Mine To South Fork Coeur D'alene River | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 670,000 | SF | \$1.18 | \$790,000 | \$470,000 | \$140,000 | \$1,400,000 |
| NM04-3 | Silver Star Mine To South Fork Coeur D'alene River | Bioengineering Actions | Current Deflector Sediment Traps | 7 | EA | \$1,700 | \$12,000 | \$7,300 | \$71,000 | \$90,000 |
| NM04-3 | Silver Star Mine To South Fork Coeur D'alene River | Bioengineering Actions | Current Deflector Average Cost | 67 | EA | \$1,700 | \$120,000 | \$70,000 | \$35,000 | \$220,000 |
| NM04-3 | Silver Star Mine To South Fork Coeur D'alene River | Bioengineering Actions | Channel Realignment | 74,000 | SY | \$37 | \$2,700,000 | \$1,600,000 | \$470,000 | \$4,800,000 |
| NM04-3 | Silver Star Mine To South Fork Coeur D'alene River | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 5,600 | LF | \$100 | \$580,000 | \$350,000 | \$170,000 | \$1,100,000 |
| NM04-3 | Silver Star Mine To South Fork Coeur D'alene River | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 5,600 | LF | \$45 | \$250,000 | \$150,000 | \$76,000 | \$480,000 |
| OSB032 | Duluth Mine Blackcloud Ck | Floodplain Waste Rock | Excavation | 4,000 | CY | \$3.40 | \$14,000 | \$8,200 | \$0 | \$22,000 |
| OSB032 | Duluth Mine Blackcloud Ck | Floodplain Waste Rock | Low Permeability Cap | 0.84 | AC | \$190,000 | \$160,000 | \$96,000 | \$20,000 | \$280,000 |
| OSB033 | Ruth Mine | Upland Waste Rock | Low Permeability Cap | 0.68 | AC | \$190,000 | \$130,000 | \$78,000 | \$16,000 | \$220,000 |
| OSB033 | Ruth Mine | Upland Waste Rock | Excavation | 3,200 | CY | \$3.40 | \$11,000 | \$6,500 | \$0 | \$17,000 |
| OSB038 | California No.4 | Floodplain Waste Rock | Excavation | 6,200 | CY | \$3.40 | \$21,000 | \$13,000 | \$0 | \$34,000 |
| OSB038 | California No.4 | Floodplain Waste Rock | Low Permeability Cap | 1.3 | AC | \$190,000 | \$240,000 | \$150,000 | \$30,000 | \$420,000 |
| OSB039 | Dayrock Mine | Upland Tailings | Local Repository Above Flood Level | 11,000 | CY | \$12 | \$130,000 | \$81,000 | \$30,000 | \$250,000 |
| OSB039 | Dayrock Mine | Upland Tailings | Excavation | 11,000 | CY | \$3.40 | \$37,000 | \$22,000 | \$0 | \$60,000 |

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Table 11
Estimated Costs For Ecological Alternative 3
Nine Mile Creek Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|-----------|--|------------------------|--------------------------------|----------|------|------------------------------------|-------------------------------|---------------------------------|--------------------|----------------------|
| OSB039 | Dayrock Mine | Floodplain Sediments | Regional Repository | 11,000 | CY | \$20 | \$220,000 | \$130,000 | \$55,000 | \$410,000 |
| OSB039 | Dayrock Mine | Adit Drainage | Adit Drainage Collection | 1 | LS | \$7,800 | \$7,800 | \$4,700 | \$1,400 | \$14,000 |
| OSB039 | Dayrock Mine | Buildings & Structures | Decon millsite | 1 | LS | \$130,000 | \$130,000 | \$76,000 | \$6,300 | \$210,000 |
| OSB039 | Dayrock Mine | Adit Drainage | Permeable Reactive Trench | 10 | CY | \$550 | \$5,500 | \$3,300 | \$33,000 | \$42,000 |
| OSB039 | Dayrock Mine | Floodplain Sediments | Sediment Excavation | 11,000 | CY | \$13 | \$140,000 | \$83,000 | \$0 | \$220,000 |
| OSB040 | Ef Ninemile Ck Hecla Rehab | Floodplain Sediments | Regional Repository | 17,000 | CY | \$20 | \$340,000 | \$200,000 | \$85,000 | \$630,000 |
| OSB040 | Ef Ninemile Ck Hecla Rehab | Floodplain Sediments | Sediment Excavation | 17,000 | CY | \$13 | \$210,000 | \$130,000 | \$0 | \$340,000 |
| OSB044 | Success Mine Rock Dump | Upland Tailings | Excavation | 360,000 | CY | \$3.40 | \$1,200,000 | \$730,000 | \$0 | \$2,000,000 |
| OSB044 | Success Mine Rock Dump | Upland Waste Rock | Regrade/Consolidate/Revegetate | 0.45 | AC | \$71,000 | \$32,000 | \$19,000 | \$4,000 | \$55,000 |
| OSB044 | Success Mine Rock Dump | Upland Tailings | Regional Repository | 360,000 | CY | \$20 | \$7,300,000 | \$4,400,000 | \$1,800,000 | \$13,000,000 |
| OSB044 | Success Mine Rock Dump | Floodplain Sediments | Sediment Excavation | 10,000 | CY | \$13 | \$130,000 | \$76,000 | \$0 | \$200,000 |
| OSB044 | Success Mine Rock Dump | Floodplain Sediments | Regional Repository | 10,000 | CY | \$20 | \$200,000 | \$120,000 | \$50,000 | \$370,000 |
| OSB052 | Dayrock Mine Tlgs Pile/svnr Repository | Upland Tailings | Tailings Impoundment Closure | 5.6 | AC | \$210,000 | \$1,200,000 | \$710,000 | \$240,000 | \$2,100,000 |
| OSB056 | Ef Ninemile Ck Impacted Riparian | Floodplain Sediments | Regional Repository | 1,600 | CY | \$20 | \$32,000 | \$19,000 | \$8,100 | \$60,000 |
| OSB056 | Ef Ninemile Ck Impacted Riparian | Floodplain Sediments | Sediment Excavation | 1,600 | CY | \$13 | \$20,000 | \$12,000 | \$0 | \$32,000 |
| OSB057 | Ef Ninemile Ck Impacted Riparian | Floodplain Sediments | Regional Repository | 13,000 | CY | \$20 | \$260,000 | \$160,000 | \$66,000 | \$480,000 |
| OSB057 | Ef Ninemile Ck Impacted Riparian | Floodplain Sediments | Sediment Excavation | 13,000 | CY | \$13 | \$160,000 | \$98,000 | \$0 | \$260,000 |
| OSB058 | Ef Ninemile Ck Svnrt Rehab | Floodplain Sediments | Sediment Excavation | 1,600 | CY | \$13 | \$20,000 | \$12,000 | \$0 | \$32,000 |
| OSB058 | Ef Ninemile Ck Svnrt Rehab | Floodplain Sediments | Regional Repository | 1,600 | CY | \$20 | \$32,000 | \$19,000 | \$8,100 | \$60,000 |

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Table 11
Estimated Costs For Ecological Alternative 3
Nine Mile Creek Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|-----------|---------------------------------------|-----------------------|------------------------------------|-----------|-------|------------------------------------|-------------------------------|---------------------------------|--------------------|----------------------|
| OSB059 | Ninemile Ck Below Dayrock Mine | Floodplain Sediments | Sediment Excavation | 33,000 | CY | \$13 | \$420,000 | \$250,000 | \$0 | \$670,000 |
| OSB059 | Ninemile Ck Below Dayrock Mine | Floodplain Sediments | Regional Repository | 33,000 | CY | \$20 | \$670,000 | \$400,000 | \$170,000 | \$1,200,000 |
| OSB060 | Ninemile Ck Svnrt Rehab Near Blackcld | Floodplain Sediments | Local Repository Above Flood Level | 800 | CY | \$12 | \$9,800 | \$5,900 | \$2,200 | \$18,000 |
| OSB060 | Ninemile Ck Svnrt Rehab Near Blackcld | Floodplain Sediments | Sediment Excavation | 800 | CY | \$13 | \$10,000 | \$6,000 | \$0 | \$16,000 |
| OSB061 | Blackcloud Ck Millsite | Upland Tailings | Excavation | 7,000 | CY | \$3.40 | \$24,000 | \$14,000 | \$0 | \$38,000 |
| OSB061 | Blackcloud Ck Millsite | Upland Tailings | Local Repository Above Flood Level | 7,000 | CY | \$12 | \$86,000 | \$51,000 | \$19,000 | \$160,000 |
| OSB082 | Monarch Mine Blackcloud Ck | Floodplain Waste Rock | Low Permeability Cap | 0.54 | AC | \$190,000 | \$100,000 | \$62,000 | \$13,000 | \$180,000 |
| OSB082 | Monarch Mine Blackcloud Ck | Floodplain Waste Rock | Excavation | 2,600 | CY | \$3.40 | \$8,800 | \$5,300 | \$0 | \$14,000 |
| OSB088 | Alameda Mine | Adit Drainage | Permeable Reactive Trench | 10 | CY | \$550 | \$5,500 | \$3,300 | \$33,000 | \$42,000 |
| OSB088 | Alameda Mine | Adit Drainage | Adit Drainage Collection | 1 | LS | \$7,800 | \$7,800 | \$4,700 | \$1,400 | \$14,000 |
| OSB089 | Success No.3 | Adit Drainage | Adit Drainage Collection | 1 | LS | \$7,800 | \$7,800 | \$4,700 | \$1,400 | \$14,000 |
| OSB089 | Success No.3 | Adit Drainage | Media Filter Treatment Plant | 16 | GPM | \$1,500 | \$24,000 | \$18,000 | \$47,000 | \$88,000 |
| OSB115 | Option Mine | Upland Waste Rock | Excavation | 40 | CY | \$3.40 | \$140 | \$82 | \$0 | \$220 |
| OSB115 | Option Mine | Upland Waste Rock | Low Permeability Cap | 0.34 | AC | \$190,000 | \$65,000 | \$39,000 | \$8,100 | \$110,000 |
| PIPENM02 | Pipeline To Active Treatment | General | Conveyance Pipeline-6" | 8,200 | LF | \$49 | \$400,000 | \$240,000 | \$30,000 | \$670,000 |
| PIPENM04 | Pipeline To Active Treatment | General | Conveyance Pipeline-6" | 16,000 | LF | \$49 | \$800,000 | \$480,000 | \$60,000 | \$1,300,000 |
| RHAULNM01 | Hauling To Regional Repository | General | Haul to Regional Repository | 70,000 | CY-MI | \$1.12 | \$78,000 | \$47,000 | \$0 | \$130,000 |
| RHAULNM02 | Hauling To Regional Repository | General | Haul to Regional Repository | 1,200,000 | CY-MI | \$1.12 | \$1,400,000 | \$820,000 | \$0 | \$2,200,000 |
| RHAULNM04 | Hauling To Regional Repository | General | Haul to Regional Repository | 44,000 | CY-MI | \$1.12 | \$49,000 | \$30,000 | \$0 | \$79,000 |

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Table 11
Estimated Costs For Ecological Alternative 3
Nine Mile Creek Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|--|---|----------------------|------------------------------------|----------|------|--|-------------------------------------|---------------------------------------|-----------------------|-------------------------|
| WAL006 | Northside Mine | Upland Waste Rock | Excavation | 40 | CY | \$3.40 | \$140 | \$82 | \$0 | \$220 |
| WAL006 | Northside Mine | Upland Waste Rock | Low Permeability Cap | 0.25 | AC | \$190,000 | \$48,000 | \$29,000 | \$5,900 | \$82,000 |
| WAL033 | Ninemile Ck Potential Tailings Deposit | Floodplain Sediments | Local Repository Above Flood Level | 33,000 | CY | \$12 | \$400,000 | \$240,000 | \$91,000 | \$740,000 |
| WAL033 | Ninemile Ck Potential Tailings Deposit | Floodplain Sediments | Sediment Excavation | 33,000 | CY | \$13 | \$420,000 | \$250,000 | \$0 | \$660,000 |
| Totals for Nine Mile Creek Watershed . . . | | | | | | | \$42,000,000 | \$25,000,000 | \$7,300,000 | \$74,000,000 |

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Table 12
Estimated Costs For Ecological Alternative 3
Big Creek Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|------------|--|------------------------|---|----------|------|------------------------------------|-------------------------------|---------------------------------|--------------------|----------------------|
| ACCESSBC01 | Road Construction Required To Access Remote Source | General | Temporary Access Road | 3 | MI | \$250,000 | \$760,000 | \$450,000 | \$0 | \$1,200,000 |
| ACCESSBC03 | Road Construction Required To Access Remote Source | General | Temporary Access Road | 2 | MI | \$250,000 | \$500,000 | \$300,000 | \$0 | \$810,000 |
| ACCESSBC04 | Road Construction Required To Access Remote Source | General | Temporary Access Road | 0.50 | MI | \$250,000 | \$130,000 | \$76,000 | \$0 | \$200,000 |
| BIG04-2 | Wf Big Creek To The Sunshine Mine Site | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 1,100 | LF | \$100 | \$120,000 | \$72,000 | \$36,000 | \$230,000 |
| BIG04-2 | Wf Big Creek To The Sunshine Mine Site | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 1,100 | LF | \$45 | \$52,000 | \$31,000 | \$16,000 | \$99,000 |
| BIG04-2 | Wf Big Creek To The Sunshine Mine Site | Bioengineering Actions | Current Deflector Sediment Traps | 2 | EA | \$1,700 | \$3,500 | \$2,100 | \$20,000 | \$26,000 |
| BIG04-2 | Wf Big Creek To The Sunshine Mine Site | Bioengineering Actions | Current Deflector Average Cost | 17 | EA | \$1,700 | \$30,000 | \$18,000 | \$8,900 | \$56,000 |
| BIG04-3 | Sunshine Mine Site To The South Fork Coeur D'alene | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 4,700 | LF | \$45 | \$210,000 | \$130,000 | \$64,000 | \$400,000 |
| BIG04-3 | Sunshine Mine Site To The South Fork Coeur D'alene | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 4,700 | LF | \$100 | \$490,000 | \$290,000 | \$150,000 | \$930,000 |
| BIG04-3 | Sunshine Mine Site To The South Fork Coeur D'alene | Bioengineering Actions | Current Deflector Average Cost | 120 | EA | \$1,700 | \$210,000 | \$130,000 | \$63,000 | \$400,000 |
| BIG04-3 | Sunshine Mine Site To The South Fork Coeur D'alene | Bioengineering Actions | Current Deflector Sediment Traps | 14 | EA | \$1,700 | \$24,000 | \$15,000 | \$140,000 | \$180,000 |
| BIG04-3 | Sunshine Mine Site To The South Fork Coeur D'alene | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 320,000 | SF | \$1.18 | \$380,000 | \$230,000 | \$67,000 | \$680,000 |
| BIG04-3 | Sunshine Mine Site To The South Fork Coeur D'alene | Bioengineering Actions | Off-Channel Hydrologic Feature Average Cost | 20,000 | SY | \$37 | \$710,000 | \$430,000 | \$120,000 | \$1,300,000 |
| KLE025 | Sunshine Tailings Pond: No. 2 | Floodplain Tailings | Tailings Impoundment Closure | 24 | AC | \$210,000 | \$5,200,000 | \$3,100,000 | \$1,000,000 | \$9,300,000 |
| KLE026 | Silver Syndicate | Floodplain Waste Rock | Erosion Protection | 12 | AC | \$14,000 | \$170,000 | \$100,000 | \$38,000 | \$310,000 |
| KLE027 | North American Mine | Upland Waste Rock | Excavation | 93,000 | CY | \$3.40 | \$320,000 | \$190,000 | \$0 | \$510,000 |
| KLE027 | North American Mine | Upland Waste Rock | Local Repository Above Flood Level | 93,000 | CY | \$12 | \$1,100,000 | \$680,000 | \$260,000 | \$2,100,000 |
| KLE047 | Big Ck Impacted Riparian: No. 1 | Floodplain Sediments | Regional Repository | 3,300 | CY | \$11 | \$36,000 | \$22,000 | \$7,300 | \$66,000 |
| KLE047 | Big Ck Impacted Riparian: No. 1 | Floodplain Sediments | Sediment Excavation | 3,300 | CY | \$13 | \$42,000 | \$25,000 | \$0 | \$67,000 |

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Table 12
Estimated Costs For Ecological Alternative 3
Big Creek Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|------------|---|-----------------------|---|----------|-------|--|-------------------------------------|---------------------------------------|-----------------------|-------------------------|
| KLE053 | North American/silver Syndicate Mine | Floodplain Waste Rock | Local Repository Above Flood Level | 200,000 | CY | \$12 | \$2,400,000 | \$1,400,000 | \$540,000 | \$4,400,000 |
| KLE053 | North American/silver Syndicate Mine | Floodplain Waste Rock | Excavation | 200,000 | CY | \$3.40 | \$670,000 | \$400,000 | \$0 | \$1,100,000 |
| KLE054 | Crescent/hooper Tunnel | Adit Drainage | Permeable Reactive Trench | 10 | CY | \$550 | \$5,500 | \$3,300 | \$33,000 | \$42,000 |
| KLE054 | Crescent/hooper Tunnel | Upland Waste Rock | Excavation | 160,000 | CY | \$3.40 | \$540,000 | \$330,000 | \$0 | \$870,000 |
| KLE054 | Crescent/hooper Tunnel | Adit Drainage | Adit Drainage Collection | 1 | LS | \$7,800 | \$7,800 | \$4,700 | \$1,400 | \$14,000 |
| KLE054 | Crescent/hooper Tunnel | Upland Waste Rock | Local Repository Above Flood Level | 160,000 | CY | \$12 | \$2,000,000 | \$1,200,000 | \$440,000 | \$3,600,000 |
| KLE071 | Big Ck Impacted Riparian: No. 3 | Floodplain Sediments | Regional Repository | 39,000 | CY | \$11 | \$430,000 | \$260,000 | \$86,000 | \$770,000 |
| KLE071 | Big Ck Impacted Riparian: No. 3 | Floodplain Sediments | Sediment Excavation | 39,000 | CY | \$13 | \$490,000 | \$300,000 | \$0 | \$790,000 |
| KLE073 | Big Ck Impacted Riparian: No. 2 | Floodplain Sediments | Sediment Excavation | 100,000 | CY | \$13 | \$1,300,000 | \$760,000 | \$0 | \$2,000,000 |
| KLE073 | Big Ck Impacted Riparian: No. 2 | Floodplain Sediments | Regional Repository | 100,000 | CY | \$11 | \$1,100,000 | \$660,000 | \$220,000 | \$2,000,000 |
| LHAULBIG01 | Hauling To Local Repository. | General | Haul to Local Repository, 1/2 Mile One Way | 2,300 | CY-MI | \$1.12 | \$2,600 | \$1,500 | \$0 | \$4,100 |
| LHAULBIG03 | Hauling To Local Repository | General | Haul to Local Repository, 1/2 Mile One Way | 850 | CY-MI | \$1.12 | \$950 | \$570 | \$0 | \$1,500 |
| LHAULBIG04 | Hauling To Local Repository | General | Haul to Local Repository, 1/2 Mile One Way | 230,000 | CY-MI | \$1.12 | \$260,000 | \$160,000 | \$0 | \$420,000 |
| POL001 | Sunshine Consolidated Rockford Group | Floodplain Waste Rock | Erosion Protection | 0.34 | AC | \$14,000 | \$4,700 | \$2,800 | \$1,100 | \$8,600 |
| POL002 | Silver Dale And Big Hill Mine | Floodplain Waste Rock | Local Repository Above Flood Level | 1,700 | CY | \$12 | \$21,000 | \$12,000 | \$4,700 | \$38,000 |
| POL002 | Silver Dale And Big Hill Mine | Floodplain Waste Rock | Excavation | 1,700 | CY | \$3.40 | \$5,800 | \$3,500 | \$0 | \$9,300 |
| POL008 | Globe Mine | Floodplain Waste Rock | Local Repository Above Flood Level | 8,200 | CY | \$12 | \$100,000 | \$60,000 | \$22,000 | \$180,000 |
| POL008 | Globe Mine | Floodplain Waste Rock | Excavation | 8,200 | CY | \$3.40 | \$28,000 | \$17,000 | \$0 | \$44,000 |
| POL010 | Western Star Mine | Upland Waste Rock | Local Repository Above Flood Level | 4,600 | CY | \$12 | \$56,000 | \$33,000 | \$13,000 | \$100,000 |

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Table 12
Estimated Costs For Ecological Alternative 3
Big Creek Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|---|--------------------------------|-----------------------|------------------------------------|-----------|-------|--|-------------------------------------|---------------------------------------|-----------------------|-------------------------|
| POL010 | Western Star Mine | Upland Waste Rock | Excavation | 4,600 | CY | \$3.40 | \$16,000 | \$9,300 | \$0 | \$25,000 |
| POL011 | Wolfson Mine | Floodplain Waste Rock | Excavation | 3,100 | CY | \$3.40 | \$11,000 | \$6,400 | \$0 | \$17,000 |
| POL011 | Wolfson Mine | Floodplain Waste Rock | Local Repository Above Flood Level | 3,100 | CY | \$12 | \$38,000 | \$23,000 | \$8,600 | \$70,000 |
| POL022 | First National Mine | Floodplain Waste Rock | Erosion Protection | 0.85 | AC | \$14,000 | \$12,000 | \$7,100 | \$2,700 | \$22,000 |
| POL044 | Unnamed Prospect | Upland Waste Rock | Erosion Protection | 0.30 | AC | \$14,000 | \$4,200 | \$2,500 | \$940 | \$7,600 |
| POL052 | Lucky Boy Mine | Floodplain Waste Rock | Excavation | 4,600 | CY | \$3.40 | \$16,000 | \$9,400 | \$0 | \$25,000 |
| POL052 | Lucky Boy Mine | Floodplain Waste Rock | Local Repository Above Flood Level | 4,600 | CY | \$12 | \$56,000 | \$34,000 | \$13,000 | \$100,000 |
| POL066 | Unnamed Adit | Upland Waste Rock | Excavation | 200 | CY | \$3.40 | \$680 | \$410 | \$0 | \$1,100 |
| POL066 | Unnamed Adit | Upland Waste Rock | Local Repository Above Flood Level | 200 | CY | \$12 | \$2,400 | \$1,500 | \$550 | \$4,500 |
| POL067 | Unnamed Adit | Adit Drainage | Adit Drainage Collection | 1 | LS | \$7,800 | \$7,800 | \$4,700 | \$1,400 | \$14,000 |
| POL067 | Unnamed Adit | Adit Drainage | Permeable Reactive Trench | 10 | CY | \$550 | \$5,500 | \$3,300 | \$33,000 | \$42,000 |
| POL068 | Unnamed Adit | Upland Waste Rock | Regrade/Consolidate/Revegetate | 0.20 | AC | \$71,000 | \$14,000 | \$8,500 | \$1,800 | \$24,000 |
| RHAULBIG04 | Hauling To Regional Repository | General | Haul to Regional Repository | 1,000,000 | CY-MI | \$1.12 | \$1,100,000 | \$670,000 | \$0 | \$1,800,000 |
| Totals for Big Creek Watershed . . . | | | | | | | \$21,000,000 | \$13,000,000 | \$3,400,000 | \$37,000,000 |

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Table 13
Estimated Costs For Ecological Alternative 3
Moon Creek Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|------------|--|------------------------|---|----------|------|--|-------------------------------------|---------------------------------------|-----------------------|-------------------------|
| ACCESSMC02 | Road Construction Required To Access Remote Source | General | Temporary Access Road | 1 | MI | \$250,000 | \$250,000 | \$150,000 | \$0 | \$400,000 |
| KLE008 | Maine-standard Mine | Upland Waste Rock | Regrade/Consolidate/Revegetate | 0.65 | AC | \$140,000 | \$90,000 | \$54,000 | \$11,000 | \$160,000 |
| KLE014 | Royal Anne Mine | Upland Waste Rock | Regional Repository | 200 | CY | \$11 | \$2,200 | \$1,300 | \$440 | \$3,900 |
| KLE014 | Royal Anne Mine | Upland Waste Rock | Excavation | 200 | CY | \$3.40 | \$680 | \$410 | \$0 | \$1,100 |
| KLE041 | Moon Ck Impacted Riparian | Floodplain Sediments | Regional Repository | 3,300 | CY | \$11 | \$36,000 | \$22,000 | \$7,200 | \$65,000 |
| KLE041 | Moon Ck Impacted Riparian | Floodplain Sediments | Sediment Excavation | 3,300 | CY | \$13 | \$42,000 | \$25,000 | \$0 | \$67,000 |
| KLE061 | Unnamed Tunnel | Floodplain Waste Rock | Excavation | 200 | CY | \$3.40 | \$680 | \$410 | \$0 | \$1,100 |
| KLE061 | Unnamed Tunnel | Floodplain Waste Rock | Regional Repository | 200 | CY | \$11 | \$2,200 | \$1,300 | \$440 | \$3,900 |
| KLE063 | Unnamed Adit | Upland Waste Rock | Regrade/Consolidate/Revegetate | 0.15 | AC | \$140,000 | \$21,000 | \$12,000 | \$2,600 | \$36,000 |
| KLE064 | Unnamed Adit | Upland Waste Rock | Regrade/Consolidate/Revegetate | 0.13 | AC | \$140,000 | \$18,000 | \$11,000 | \$2,300 | \$31,000 |
| KLE065 | Unnamed Adits | Upland Waste Rock | Regrade/Consolidate/Revegetate | 0.23 | AC | \$140,000 | \$32,000 | \$19,000 | \$4,000 | \$55,000 |
| MC01-2 | Unnamed Tributary At Mile 1.8 To Mainstem Mook Creek | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 1,500 | LF | \$100 | \$160,000 | \$96,000 | \$48,000 | \$300,000 |
| MC01-2 | Unnamed Tributary At Mile 1.8 To Mainstem Mook Creek | Bioengineering Actions | Current Deflector Sediment Traps | 4 | EA | \$1,700 | \$7,000 | \$4,200 | \$40,000 | \$51,000 |
| MC01-2 | Unnamed Tributary At Mile 1.8 To Mainstem Mook Creek | Bioengineering Actions | Current Deflector Average Cost | 34 | EA | \$1,700 | \$59,000 | \$35,000 | \$18,000 | \$110,000 |
| MC01-2 | Unnamed Tributary At Mile 1.8 To Mainstem Mook Creek | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 120,000 | SF | \$1.18 | \$140,000 | \$82,000 | \$24,000 | \$240,000 |
| MC01-2 | Unnamed Tributary At Mile 1.8 To Mainstem Mook Creek | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 1,500 | LF | \$45 | \$69,000 | \$42,000 | \$21,000 | \$130,000 |
| MC02-2 | Unnamed Tributary At Mile 2.8 To Confluence With Wf | Bioengineering Actions | Current Deflector Average Cost | 60 | EA | \$1,700 | \$100,000 | \$63,000 | \$31,000 | \$200,000 |
| MC02-2 | Unnamed Tributary At Mile 2.8 To Confluence With Wf | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 330,000 | SF | \$1.18 | \$400,000 | \$240,000 | \$69,000 | \$700,000 |
| MC02-2 | Unnamed Tributary At Mile 2.8 To Confluence With Wf | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 1,300 | LF | \$100 | \$140,000 | \$84,000 | \$42,000 | \$270,000 |

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Table 13
Estimated Costs For Ecological Alternative 3
Moon Creek Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|--|---|------------------------|---|----------|-------|------------------------------------|-------------------------------|---------------------------------|--------------------|----------------------|
| MC02-2 | Unnamed Tributary At Mile 2.8 To Confluence With Wf | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 1,300 | LF | \$45 | \$61,000 | \$36,000 | \$18,000 | \$110,000 |
| MC02-2 | Unnamed Tributary At Mile 2.8 To Confluence With Wf | Bioengineering Actions | Current Deflector Sediment Traps | 7 | EA | \$1,700 | \$12,000 | \$7,300 | \$71,000 | \$90,000 |
| MC02-3 | Wf Confluence To Unnamed Tributary At Mile 1.2 | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 1,100 | LF | \$100 | \$120,000 | \$70,000 | \$35,000 | \$220,000 |
| MC02-3 | Wf Confluence To Unnamed Tributary At Mile 1.2 | Bioengineering Actions | Current Deflector Average Cost | 25 | EA | \$1,700 | \$43,000 | \$26,000 | \$13,000 | \$83,000 |
| MC02-3 | Wf Confluence To Unnamed Tributary At Mile 1.2 | Bioengineering Actions | Current Deflector Sediment Traps | 3 | EA | \$1,700 | \$5,200 | \$3,100 | \$30,000 | \$39,000 |
| MC02-3 | Wf Confluence To Unnamed Tributary At Mile 1.2 | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 170,000 | SF | \$1.18 | \$200,000 | \$120,000 | \$35,000 | \$350,000 |
| MC02-3 | Wf Confluence To Unnamed Tributary At Mile 1.2 | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 1,100 | LF | \$45 | \$51,000 | \$30,000 | \$15,000 | \$96,000 |
| MC02-4 | Unnamed Tributary At Mile 1.2 To South Fork Coeur | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 870 | LF | \$45 | \$39,000 | \$24,000 | \$12,000 | \$75,000 |
| MC02-4 | Unnamed Tributary At Mile 1.2 To South Fork Coeur | Bioengineering Actions | Current Deflector Average Cost | 26 | EA | \$1,700 | \$45,000 | \$27,000 | \$14,000 | \$86,000 |
| MC02-4 | Unnamed Tributary At Mile 1.2 To South Fork Coeur | Bioengineering Actions | Current Deflector Sediment Traps | 3 | EA | \$1,700 | \$5,200 | \$3,100 | \$30,000 | \$39,000 |
| MC02-4 | Unnamed Tributary At Mile 1.2 To South Fork Coeur | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 150,000 | SF | \$1.18 | \$170,000 | \$100,000 | \$30,000 | \$300,000 |
| MC02-4 | Unnamed Tributary At Mile 1.2 To South Fork Coeur | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 580 | LF | \$100 | \$61,000 | \$36,000 | \$18,000 | \$120,000 |
| RHAULMN01 | Hauling To Regional Repository | General | Haul to Regional Repository | 1,400 | CY-MI | \$1.12 | \$1,600 | \$940 | \$0 | \$2,500 |
| RHAULMN02 | Hauling To Regional Repository | General | Haul to Regional Repository | 28,000 | CY-MI | \$1.12 | \$31,000 | \$19,000 | \$0 | \$50,000 |
| Totals for Moon Creek Watershed . . . | | | | | | | \$2,400,000 | \$1,400,000 | \$640,000 | \$4,500,000 |

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Table 14
Estimated Costs For Ecological Alternative 3
South Fork Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|------------|---|-----------------------|------------------------------|----------|------|------------------------------------|-------------------------------|---------------------------------|--------------------|----------------------|
| ACCESSMG01 | Road Construction Required To Access Remote Source | General | Temporary Access Road | 16 | MI | \$250,000 | \$4,000,000 | \$2,400,000 | \$0 | \$6,500,000 |
| ACCESSMG02 | Road Construction Required To Access Remote Source | General | Temporary Access Road | 2.5 | MI | \$250,000 | \$630,000 | \$380,000 | \$0 | \$1,000,000 |
| HHWPMG01-1 | Upland Waste Pile W/human Health Exposure | Upland Waste Rock | Cover waste pile | 1 | AC | \$54,000 | \$54,000 | \$33,000 | \$6,800 | \$93,000 |
| HHWPMG01-2 | Upland Waste Pile W/human Health Exposure | Upland Waste Rock | Cover waste pile | 1 | AC | \$54,000 | \$54,000 | \$33,000 | \$6,800 | \$93,000 |
| HHWPMG01-3 | Upland Waste Pile W/human Health Exposure | Upland Waste Rock | Cover waste pile | 1 | AC | \$54,000 | \$54,000 | \$33,000 | \$6,800 | \$93,000 |
| HHWPMG01-4 | Upland Waste Pile W/human Health Exposure | Upland Waste Rock | Cover waste pile | 1 | AC | \$54,000 | \$54,000 | \$33,000 | \$6,800 | \$93,000 |
| HHWPMG01-5 | Upland Waste Pile W/human Health Exposure | Upland Waste Rock | Cover waste pile | 1 | AC | \$54,000 | \$54,000 | \$33,000 | \$6,800 | \$93,000 |
| KLE011 | Silver Crescent Tailings (the Kle011 Source Area Is | Upland Tailings | Tailings Impoundment Closure | 7.9 | AC | \$210,000 | \$1,700,000 | \$1,000,000 | \$340,000 | \$3,000,000 |
| KLE016 | Syndicate Mining & Exploration Co. | Upland Waste Rock | Excavation | 40 | CY | \$3.40 | \$140 | \$82 | \$0 | \$220 |
| KLE016 | Syndicate Mining & Exploration Co. | Upland Waste Rock | Low Permeability Cap | 0.62 | AC | \$190,000 | \$120,000 | \$71,000 | \$15,000 | \$200,000 |
| KLE020 | New Hilarity Mine | Upland Waste Rock | Low Permeability Cap | 1.5 | AC | \$190,000 | \$280,000 | \$170,000 | \$35,000 | \$490,000 |
| KLE020 | New Hilarity Mine | Upland Waste Rock | Excavation | 7,200 | CY | \$3.40 | \$24,000 | \$15,000 | \$0 | \$39,000 |
| KLE021 | Alhambra Mine | Upland Waste Rock | Low Permeability Cap | 0.65 | AC | \$190,000 | \$120,000 | \$74,000 | \$15,000 | \$210,000 |
| KLE021 | Alhambra Mine | Upland Waste Rock | Excavation | 40 | CY | \$3.40 | \$140 | \$82 | \$0 | \$220 |
| KLE023 | Pioneer Mines Inc. Property | Upland Waste Rock | Low Permeability Cap | 1.2 | AC | \$190,000 | \$220,000 | \$130,000 | \$27,000 | \$380,000 |
| KLE023 | Pioneer Mines Inc. Property | Upland Waste Rock | Excavation | 40 | CY | \$3.40 | \$140 | \$82 | \$0 | \$220 |
| KLE033 | Polaris Mine | Upland Waste Rock | Low Permeability Cap | 1.6 | AC | \$190,000 | \$300,000 | \$180,000 | \$38,000 | \$530,000 |
| KLE033 | Polaris Mine | Upland Waste Rock | Excavation | 5,000 | CY | \$3.40 | \$17,000 | \$10,000 | \$0 | \$27,000 |
| KLE034 | Silver Dollar Mine | Floodplain Waste Rock | Low Permeability Cap | 2.3 | AC | \$190,000 | \$440,000 | \$260,000 | \$54,000 | \$750,000 |

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Table 14
Estimated Costs For Ecological Alternative 3
South Fork Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|-----------|---|------------------------|---------------------------------------|----------|------|--|-------------------------------------|---------------------------------------|-----------------------|-------------------------|
| KLE034 | Silver Dollar Mine | Floodplain Waste Rock | Excavation | 4,400 | CY | \$3.40 | \$15,000 | \$9,000 | \$0 | \$24,000 |
| KLE035 | Silver Summit Mine | Floodplain Waste Rock | Excavation | 60,000 | CY | \$3.40 | \$200,000 | \$120,000 | \$0 | \$330,000 |
| KLE035 | Silver Summit Mine | Buildings & Structures | Decon millsite | 1 | LS | \$130,000 | \$130,000 | \$76,000 | \$6,300 | \$210,000 |
| KLE035 | Silver Summit Mine | Floodplain Waste Rock | Low Permeability Cap | 13 | AC | \$190,000 | \$2,600,000 | \$1,500,000 | \$320,000 | \$4,400,000 |
| KLE040 | Sf Cda River Impacted Floodplain: No. 5 | Floodplain Sediments | Hydraulic Isolation Using Slurry Wall | 7,000 | LF | \$350 | \$2,500,000 | \$1,500,000 | \$990,000 | \$4,900,000 |
| KLE040 | Sf Cda River Impacted Floodplain: No. 5 | Groundwater | Media Filter Treatment Plant | 9.0 | GPM | \$1,500 | \$13,000 | \$10,000 | \$27,000 | \$50,000 |
| KLE042 | Moon Ck Pond At Mouth | Floodplain Tailings | Local Repository Above Flood Level | 13,000 | CY | \$12 | \$160,000 | \$95,000 | \$36,000 | \$290,000 |
| KLE042 | Moon Ck Pond At Mouth | Floodplain Sediments | Sediment Excavation | 50,000 | CY | \$13 | \$630,000 | \$380,000 | \$0 | \$1,000,000 |
| KLE042 | Moon Ck Pond At Mouth | Floodplain Sediments | Regional Repository | 50,000 | CY | \$11 | \$550,000 | \$330,000 | \$110,000 | \$990,000 |
| KLE042 | Moon Ck Pond At Mouth | Floodplain Tailings | Excavation | 13,000 | CY | \$3.40 | \$44,000 | \$27,000 | \$0 | \$71,000 |
| KLE048 | Sf Cda River Svnrt Rehab | Floodplain Sediments | Hydraulic Isolation Using Slurry Wall | 3,000 | LF | \$350 | \$1,100,000 | \$640,000 | \$420,000 | \$2,100,000 |
| KLE048 | Sf Cda River Svnrt Rehab | Groundwater | Media Filter Treatment Plant | 150 | GPM | \$1,500 | \$230,000 | \$170,000 | \$460,000 | \$870,000 |
| KLE048 | Sf Cda River Svnrt Rehab | Floodplain Sediments | Sediment Excavation | 55,000 | CY | \$13 | \$690,000 | \$420,000 | \$0 | \$1,100,000 |
| KLE048 | Sf Cda River Svnrt Rehab | Floodplain Sediments | Regional Repository | 55,000 | CY | \$11 | \$600,000 | \$360,000 | \$120,000 | \$1,100,000 |
| KLE049 | Sf Cda River Impacted Riparian (midgradseg01 & | Floodplain Sediments | Hydraulic Isolation Using Slurry Wall | 2,500 | LF | \$350 | \$880,000 | \$530,000 | \$350,000 | \$1,800,000 |
| KLE049 | Sf Cda River Impacted Riparian (midgradseg01 & | Groundwater | Media Filter Treatment Plant | 130 | GPM | \$1,500 | \$200,000 | \$150,000 | \$390,000 | \$730,000 |
| KLE049 | Sf Cda River Impacted Riparian (midgradseg01 & | Floodplain Sediments | Regional Repository | 130,000 | CY | \$11 | \$1,400,000 | \$860,000 | \$290,000 | \$2,600,000 |
| KLE049 | Sf Cda River Impacted Riparian (midgradseg01 & | Floodplain Sediments | Sediment Excavation | 130,000 | CY | \$13 | \$1,600,000 | \$980,000 | \$0 | \$2,600,000 |
| KLE051 | Florence Mine | Upland Waste Rock | Excavation | 40 | CY | \$3.40 | \$140 | \$82 | \$0 | \$220 |

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Table 14
Estimated Costs For Ecological Alternative 3
South Fork Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|-----------|---|------------------------|------------------------------------|----------|------|--|-------------------------------------|---------------------------------------|-----------------------|-------------------------|
| KLE051 | Florence Mine | Upland Waste Rock | Low Permeability Cap | 0.33 | AC | \$190,000 | \$63,000 | \$38,000 | \$7,800 | \$110,000 |
| KLE062 | Osburn Flats Bureau Of Mines Testplots | Floodplain Sediments | Sediment Excavation | 26,000 | CY | \$13 | \$330,000 | \$200,000 | \$0 | \$520,000 |
| KLE062 | Osburn Flats Bureau Of Mines Testplots | Floodplain Sediments | Regional Repository | 26,000 | CY | \$11 | \$290,000 | \$170,000 | \$57,000 | \$510,000 |
| KLE066 | Rhode Island No.1 & No.2 & Assoc.adits | Upland Waste Rock | Excavation | 40 | CY | \$3.40 | \$140 | \$82 | \$0 | \$220 |
| KLE066 | Rhode Island No.1 & No.2 & Assoc.adits | Upland Waste Rock | Low Permeability Cap | 0.38 | AC | \$190,000 | \$72,000 | \$43,000 | \$9,000 | \$120,000 |
| KLE067 | St. Joe No.4 | Upland Waste Rock | Excavation | 5,500 | CY | \$3.40 | \$19,000 | \$11,000 | \$0 | \$30,000 |
| KLE067 | St. Joe No.4 | Adit Drainage | Permeable Reactive Trench | 10 | CY | \$550 | \$5,500 | \$3,300 | \$33,000 | \$42,000 |
| KLE067 | St. Joe No.4 | Adit Drainage | Adit Drainage Collection | 1 | LS | \$7,800 | \$7,800 | \$4,700 | \$1,400 | \$14,000 |
| KLE067 | St. Joe No.4 | Upland Waste Rock | Low Permeability Cap | 0.20 | AC | \$190,000 | \$38,000 | \$23,000 | \$4,800 | \$66,000 |
| KLE068 | Unnamed Adit (st. Joe No. 2) | Upland Waste Rock | Local Repository Above Flood Level | 14,000 | CY | \$12 | \$170,000 | \$100,000 | \$38,000 | \$310,000 |
| KLE068 | Unnamed Adit (st. Joe No. 2) | Upland Waste Rock | Excavation | 14,000 | CY | \$3.40 | \$48,000 | \$29,000 | \$0 | \$76,000 |
| KLE069 | St. Joe No.3 | Upland Waste Rock | Excavation | 650 | CY | \$3.40 | \$2,200 | \$1,300 | \$0 | \$3,500 |
| KLE069 | St. Joe No.3 | Upland Waste Rock | Low Permeability Cap | 0.42 | AC | \$190,000 | \$80,000 | \$48,000 | \$10,000 | \$140,000 |
| KLE070 | Unnamed Adit | Upland Waste Rock | Excavation | 40 | CY | \$3.40 | \$140 | \$82 | \$0 | \$220 |
| KLE070 | Unnamed Adit | Upland Waste Rock | Low Permeability Cap | 0.42 | AC | \$190,000 | \$80,000 | \$48,000 | \$10,000 | \$140,000 |
| KLE074 | Coeur D Alene Millsite | Buildings & Structures | Decon millsite | 1 | LS | \$130,000 | \$130,000 | \$76,000 | \$6,300 | \$210,000 |
| KLE074 | Coeur D Alene Millsite | Upland Tailings | Local Repository Above Flood Level | 14,000 | CY | \$12 | \$170,000 | \$100,000 | \$38,000 | \$310,000 |
| KLE074 | Coeur D Alene Millsite | Upland Tailings | Excavation | 14,000 | CY | \$3.40 | \$48,000 | \$29,000 | \$0 | \$76,000 |
| KLE075 | Silver Summit Millsite (polaris) | Upland Tailings | Local Repository Above Flood Level | 4,000 | CY | \$12 | \$49,000 | \$29,000 | \$11,000 | \$89,000 |

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Table 14
Estimated Costs For Ecological Alternative 3
South Fork Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|-----------|---|------------------------|--|----------|-------|--|-------------------------------------|---------------------------------------|-----------------------|-------------------------|
| KLE075 | Silver Summit Millsite (polaris) | Upland Tailings | Excavation | 4,000 | CY | \$3.40 | \$14,000 | \$8,200 | \$0 | \$22,000 |
| KLW001 | Sf Cda River Below Pinehurst Narrows Dam | Floodplain Sediments | Regional Repository | 280,000 | CY | \$11 | \$3,100,000 | \$1,800,000 | \$610,000 | \$5,500,000 |
| KLW001 | Sf Cda River Below Pinehurst Narrows Dam | Floodplain Sediments | Sediment Excavation | 280,000 | CY | \$13 | \$3,500,000 | \$2,100,000 | \$0 | \$5,600,000 |
| KLW061 | Bh No. 2 | Upland Waste Rock | Regrade/Consolidate/Revegetate | 14 | AC | \$140,000 | \$1,900,000 | \$1,200,000 | \$240,000 | \$3,300,000 |
| KLW062 | Bluebird Mine & Guy Cave Area | Upland Waste Rock | Regrade/Consolidate/Revegetate | 2.1 | AC | \$140,000 | \$300,000 | \$180,000 | \$37,000 | \$510,000 |
| KLW070 | Milo Ck Impacted Riparian: No. 1 | Floodplain Sediments | Sediment Excavation | 9,400 | CY | \$13 | \$120,000 | \$71,000 | \$0 | \$190,000 |
| KLW070 | Milo Ck Impacted Riparian: No. 1 | Floodplain Sediments | Regional Repository | 9,400 | CY | \$11 | \$100,000 | \$61,000 | \$20,000 | \$180,000 |
| KLW095 | Phil Sheridan Mine | Upland Waste Rock | Regrade/Consolidate/Revegetate | 0.82 | AC | \$140,000 | \$110,000 | \$68,000 | \$14,000 | \$200,000 |
| LHAULMG01 | Hauling To Local Repository | General | Haul to Local Repository, 1/2 Mile One Way | 47,000 | CY-MI | \$1.12 | \$53,000 | \$32,000 | \$0 | \$84,000 |
| MG01-1 | Canyon Creek To Ninemile Creek | Bioengineering Actions | Current Deflector Average Cost | 26 | EA | \$1,700 | \$45,000 | \$27,000 | \$14,000 | \$86,000 |
| MG01-1 | Canyon Creek To Ninemile Creek | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 900 | LF | \$100 | \$94,000 | \$56,000 | \$28,000 | \$180,000 |
| MG01-1 | Canyon Creek To Ninemile Creek | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 35,000 | SF | \$1.18 | \$41,000 | \$25,000 | \$7,200 | \$73,000 |
| MG01-1 | Canyon Creek To Ninemile Creek | Bioengineering Actions | Current Deflector Sediment Traps | 3 | EA | \$1,700 | \$5,200 | \$3,100 | \$30,000 | \$39,000 |
| MG01-10 | W.f. Rosebud Creek To Unnamed Creek At Rm 14.0 | Bioengineering Actions | Current Deflector Sediment Traps | 1 | EA | \$1,700 | \$1,700 | \$1,000 | \$10,000 | \$13,000 |
| MG01-10 | W.f. Rosebud Creek To Unnamed Creek At Rm 14.0 | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 400 | LF | \$45 | \$18,000 | \$11,000 | \$5,400 | \$34,000 |
| MG01-10 | W.f. Rosebud Creek To Unnamed Creek At Rm 14.0 | Bioengineering Actions | Current Deflector Average Cost | 4 | EA | \$1,700 | \$7,000 | \$4,200 | \$2,100 | \$13,000 |
| MG01-10 | W.f. Rosebud Creek To Unnamed Creek At Rm 14.0 | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 400 | LF | \$100 | \$42,000 | \$25,000 | \$13,000 | \$79,000 |
| MG01-10 | W.f. Rosebud Creek To Unnamed Creek At Rm 14.0 | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 51,000 | SF | \$1.18 | \$61,000 | \$36,000 | \$11,000 | \$110,000 |
| MG01-11 | Unnamed Creek At Rm 14.0 To Unnamed Creek At Rm 13.7 | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 290,000 | SF | \$1.18 | \$340,000 | \$200,000 | \$59,000 | \$600,000 |

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Table 14
Estimated Costs For Ecological Alternative 3
South Fork Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|-----------|---|------------------------|--|----------|------|--|-------------------------------------|---------------------------------------|-----------------------|-------------------------|
| MG01-11 | Unnamed Creek At Rm 14.0 To Unnamed Creek At Rm 13.7 | Bioengineering Actions | Current Deflector Sediment Traps | 1 | EA | \$1,700 | \$1,700 | \$1,000 | \$10,000 | \$13,000 |
| MG01-11 | Unnamed Creek At Rm 14.0 To Unnamed Creek At Rm 13.7 | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 1,200 | LF | \$45 | \$52,000 | \$31,000 | \$16,000 | \$99,000 |
| MG01-11 | Unnamed Creek At Rm 14.0 To Unnamed Creek At Rm 13.7 | Bioengineering Actions | Current Deflector Average Cost | 7 | EA | \$1,700 | \$12,000 | \$7,300 | \$3,700 | \$23,000 |
| MG01-11 | Unnamed Creek At Rm 14.0 To Unnamed Creek At Rm 13.7 | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 1,200 | LF | \$100 | \$120,000 | \$72,000 | \$36,000 | \$230,000 |
| MG01-12 | Unnamed Creek At Rm 13.7 To Unnamed Creek At Rm 13.1 | Bioengineering Actions | Off-Channel Hydrologic Feature Average Cost | 54,000 | SY | \$37 | \$2,000,000 | \$1,200,000 | \$350,000 | \$3,500,000 |
| MG01-12 | Unnamed Creek At Rm 13.7 To Unnamed Creek At Rm 13.1 | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 410,000 | SF | \$1.18 | \$490,000 | \$290,000 | \$86,000 | \$870,000 |
| MG01-12 | Unnamed Creek At Rm 13.7 To Unnamed Creek At Rm 13.1 | Bioengineering Actions | Current Deflector Sediment Traps | 2 | EA | \$1,700 | \$3,500 | \$2,100 | \$20,000 | \$26,000 |
| MG01-12 | Unnamed Creek At Rm 13.7 To Unnamed Creek At Rm 13.1 | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 1,100 | LF | \$45 | \$50,000 | \$30,000 | \$15,000 | \$95,000 |
| MG01-12 | Unnamed Creek At Rm 13.7 To Unnamed Creek At Rm 13.1 | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 1,100 | LF | \$100 | \$120,000 | \$69,000 | \$35,000 | \$220,000 |
| MG01-12 | Unnamed Creek At Rm 13.7 To Unnamed Creek At Rm 13.1 | Bioengineering Actions | Current Deflector Average Cost | 13 | EA | \$1,700 | \$23,000 | \$14,000 | \$6,800 | \$43,000 |
| MG01-13 | Unnamed Creek At Rm 13.1 To Unnamed Creek At Rm 12.3 | Bioengineering Actions | Channel Realignment | 30,000 | SY | \$37 | \$1,100,000 | \$660,000 | \$190,000 | \$2,000,000 |
| MG01-13 | Unnamed Creek At Rm 13.1 To Unnamed Creek At Rm 12.3 | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 2,500 | LF | \$100 | \$260,000 | \$160,000 | \$78,000 | \$500,000 |
| MG01-13 | Unnamed Creek At Rm 13.1 To Unnamed Creek At Rm 12.3 | Bioengineering Actions | Current Deflector Average Cost | 21 | EA | \$1,700 | \$37,000 | \$22,000 | \$11,000 | \$69,000 |
| MG01-13 | Unnamed Creek At Rm 13.1 To Unnamed Creek At Rm 12.3 | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 260,000 | SF | \$1.18 | \$300,000 | \$180,000 | \$53,000 | \$540,000 |
| MG01-13 | Unnamed Creek At Rm 13.1 To Unnamed Creek At Rm 12.3 | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 2,500 | LF | \$45 | \$110,000 | \$68,000 | \$34,000 | \$220,000 |
| MG01-13 | Unnamed Creek At Rm 13.1 To Unnamed Creek At Rm 12.3 | Bioengineering Actions | Off-Channel Hydrologic Feature Average Cost | 84,000 | SY | \$37 | \$3,100,000 | \$1,800,000 | \$540,000 | \$5,400,000 |
| MG01-13 | Unnamed Creek At Rm 13.1 To Unnamed Creek At Rm 12.3 | Bioengineering Actions | Current Deflector Sediment Traps | 2 | EA | \$1,700 | \$3,500 | \$2,100 | \$20,000 | \$26,000 |
| MG01-14 | Unnamed Creek At Rm 12.3 To Unnamed Creek At Rm 12.0 | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 150,000 | SF | \$1.18 | \$180,000 | \$110,000 | \$31,000 | \$320,000 |
| MG01-14 | Unnamed Creek At Rm 12.3 To Unnamed Creek At Rm 12.0 | Bioengineering Actions | Channel Realignment | 10,000 | SY | \$37 | \$370,000 | \$220,000 | \$65,000 | \$660,000 |

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Table 14
Estimated Costs For Ecological Alternative 3
South Fork Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|-----------|---|------------------------|--|----------|------|--|-------------------------------------|---------------------------------------|-----------------------|-------------------------|
| MG01-14 | Unnamed Creek At Rm 12.3 To Unnamed Creek At Rm 12.0 | Bioengineering Actions | Current Deflector Average Cost | 7 | EA | \$1,700 | \$12,000 | \$7,300 | \$3,700 | \$23,000 |
| MG01-14 | Unnamed Creek At Rm 12.3 To Unnamed Creek At Rm 12.0 | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 760 | LF | \$100 | \$79,000 | \$48,000 | \$24,000 | \$150,000 |
| MG01-14 | Unnamed Creek At Rm 12.3 To Unnamed Creek At Rm 12.0 | Bioengineering Actions | Off-Channel Hydrologic Feature Average Cost | 4,200 | SY | \$37 | \$150,000 | \$92,000 | \$27,000 | \$270,000 |
| MG01-14 | Unnamed Creek At Rm 12.3 To Unnamed Creek At Rm 12.0 | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 760 | LF | \$45 | \$34,000 | \$21,000 | \$10,000 | \$65,000 |
| MG01-14 | Unnamed Creek At Rm 12.3 To Unnamed Creek At Rm 12.0 | Bioengineering Actions | Current Deflector Sediment Traps | 1 | EA | \$1,700 | \$1,700 | \$1,000 | \$10,000 | \$13,000 |
| MG01-15 | Unnamed Creek At Rm 12.0 To Big Creek | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 39,000 | SF | \$1.18 | \$46,000 | \$27,000 | \$8,000 | \$81,000 |
| MG01-15 | Unnamed Creek At Rm 12.0 To Big Creek | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 390 | LF | \$45 | \$18,000 | \$11,000 | \$5,300 | \$33,000 |
| MG01-15 | Unnamed Creek At Rm 12.0 To Big Creek | Bioengineering Actions | Current Deflector Average Cost | 17 | EA | \$1,700 | \$30,000 | \$18,000 | \$8,900 | \$56,000 |
| MG01-15 | Unnamed Creek At Rm 12.0 To Big Creek | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 390 | LF | \$100 | \$40,000 | \$24,000 | \$12,000 | \$77,000 |
| MG01-15 | Unnamed Creek At Rm 12.0 To Big Creek | Bioengineering Actions | Current Deflector Sediment Traps | 2 | EA | \$1,700 | \$3,500 | \$2,100 | \$20,000 | \$26,000 |
| MG01-15 | Unnamed Creek At Rm 12.0 To Big Creek | Bioengineering Actions | Off-Channel Hydrologic Feature Average Cost | 62,000 | SY | \$37 | \$2,300,000 | \$1,400,000 | \$400,000 | \$4,000,000 |
| MG01-16 | Big Creek To Moon Creek | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 110 | LF | \$100 | \$11,000 | \$6,700 | \$3,400 | \$21,000 |
| MG01-16 | Big Creek To Moon Creek | Bioengineering Actions | Current Deflector Sediment Traps | 1 | EA | \$1,700 | \$1,700 | \$1,000 | \$10,000 | \$13,000 |
| MG01-16 | Big Creek To Moon Creek | Bioengineering Actions | Off-Channel Hydrologic Feature Average Cost | 10,000 | SY | \$37 | \$380,000 | \$230,000 | \$67,000 | \$680,000 |
| MG01-16 | Big Creek To Moon Creek | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 15,000 | SF | \$1.18 | \$17,000 | \$10,000 | \$3,000 | \$30,000 |
| MG01-16 | Big Creek To Moon Creek | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 110 | LF | \$45 | \$4,900 | \$2,900 | \$1,500 | \$9,200 |
| MG01-16 | Big Creek To Moon Creek | Bioengineering Actions | Current Deflector Average Cost | 10 | EA | \$1,700 | \$17,000 | \$10,000 | \$5,200 | \$33,000 |
| MG01-17 | Moon Creek To Unnamed Creek At Rm 9.8 | Bioengineering Actions | Channel Realignment | 37,000 | SY | \$37 | \$1,300,000 | \$800,000 | \$230,000 | \$2,400,000 |
| MG01-17 | Moon Creek To Unnamed Creek At Rm 9.8 | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 2,700 | LF | \$45 | \$120,000 | \$75,000 | \$37,000 | \$240,000 |

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Table 14
Estimated Costs For Ecological Alternative 3
South Fork Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|-----------|---|------------------------|---|----------|------|--|-------------------------------------|---------------------------------------|-----------------------|-------------------------|
| MG01-17 | Moon Creek To Unnamed Creek At Rm 9.8 | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 390,000 | SF | \$1.18 | \$460,000 | \$280,000 | \$81,000 | \$820,000 |
| MG01-17 | Moon Creek To Unnamed Creek At Rm 9.8 | Bioengineering Actions | Off-Channel Hydrologic Feature Average Cost | 15,000 | SY | \$37 | \$570,000 | \$340,000 | \$99,000 | \$1,000,000 |
| MG01-17 | Moon Creek To Unnamed Creek At Rm 9.8 | Bioengineering Actions | Current Deflector Average Cost | 24 | EA | \$1,700 | \$42,000 | \$25,000 | \$13,000 | \$79,000 |
| MG01-17 | Moon Creek To Unnamed Creek At Rm 9.8 | Bioengineering Actions | Current Deflector Sediment Traps | 3 | EA | \$1,700 | \$5,200 | \$3,100 | \$30,000 | \$39,000 |
| MG01-17 | Moon Creek To Unnamed Creek At Rm 9.8 | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 2,700 | LF | \$100 | \$290,000 | \$170,000 | \$86,000 | \$540,000 |
| MG01-18 | Unnamed Creek At Rm 9.8 To Montgomery Creek | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 1,400 | LF | \$45 | \$62,000 | \$37,000 | \$19,000 | \$120,000 |
| MG01-18 | Unnamed Creek At Rm 9.8 To Montgomery Creek | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 400,000 | SF | \$1.18 | \$470,000 | \$280,000 | \$83,000 | \$840,000 |
| MG01-18 | Unnamed Creek At Rm 9.8 To Montgomery Creek | Bioengineering Actions | Current Deflector Sediment Traps | 2 | EA | \$1,700 | \$3,500 | \$2,100 | \$20,000 | \$26,000 |
| MG01-18 | Unnamed Creek At Rm 9.8 To Montgomery Creek | Bioengineering Actions | Current Deflector Average Cost | 12 | EA | \$1,700 | \$21,000 | \$13,000 | \$6,300 | \$40,000 |
| MG01-18 | Unnamed Creek At Rm 9.8 To Montgomery Creek | Bioengineering Actions | Off-Channel Hydrologic Feature Average Cost | 5,400 | SY | \$37 | \$200,000 | \$120,000 | \$35,000 | \$350,000 |
| MG01-18 | Unnamed Creek At Rm 9.8 To Montgomery Creek | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 1,400 | LF | \$100 | \$140,000 | \$86,000 | \$43,000 | \$270,000 |
| MG01-18 | Unnamed Creek At Rm 9.8 To Montgomery Creek | Bioengineering Actions | Channel Realignment | 18,000 | SY | \$37 | \$670,000 | \$400,000 | \$120,000 | \$1,200,000 |
| MG01-2 | Ninemile Creek To Placer Creek | Bioengineering Actions | Current Deflector Sediment Traps | 2 | EA | \$1,700 | \$3,500 | \$2,100 | \$20,000 | \$26,000 |
| MG01-2 | Ninemile Creek To Placer Creek | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 800 | LF | \$100 | \$84,000 | \$50,000 | \$25,000 | \$160,000 |
| MG01-2 | Ninemile Creek To Placer Creek | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 98,000 | SF | \$1.18 | \$120,000 | \$69,000 | \$20,000 | \$210,000 |
| MG01-2 | Ninemile Creek To Placer Creek | Bioengineering Actions | Current Deflector Average Cost | 14 | EA | \$1,700 | \$24,000 | \$15,000 | \$7,300 | \$46,000 |
| MG01-3 | Placer Creek To Daly Gulch | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 150,000 | SF | \$1.18 | \$180,000 | \$110,000 | \$31,000 | \$310,000 |
| MG01-3 | Placer Creek To Daly Gulch | Bioengineering Actions | Current Deflector Average Cost | 9 | EA | \$1,700 | \$16,000 | \$9,400 | \$4,700 | \$30,000 |
| MG01-3 | Placer Creek To Daly Gulch | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 1,100 | LF | \$100 | \$120,000 | \$69,000 | \$35,000 | \$220,000 |

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Table 14
Estimated Costs For Ecological Alternative 3
South Fork Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|-----------|--|------------------------|---|-----------|------|--|-------------------------------------|---------------------------------------|-----------------------|-------------------------|
| MG01-3 | Placer Creek To Daly Gulch | Bioengineering Actions | Current Deflector Sediment Traps | 1 | EA | \$1,700 | \$1,700 | \$1,000 | \$10,000 | \$13,000 |
| MG01-3 | Placer Creek To Daly Gulch | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 1,100 | LF | \$45 | \$50,000 | \$30,000 | \$15,000 | \$95,000 |
| MG01-4 | Daly Gulch To Lake Creek | Bioengineering Actions | Current Deflector Average Cost | 26 | EA | \$1,700 | \$45,000 | \$27,000 | \$14,000 | \$86,000 |
| MG01-4 | Daly Gulch To Lake Creek | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 1,200,000 | SF | \$1.18 | \$1,400,000 | \$830,000 | \$240,000 | \$2,500,000 |
| MG01-4 | Daly Gulch To Lake Creek | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 2,500 | LF | \$100 | \$260,000 | \$160,000 | \$78,000 | \$500,000 |
| MG01-4 | Daly Gulch To Lake Creek | Bioengineering Actions | Current Deflector Sediment Traps | 3 | EA | \$1,700 | \$5,200 | \$3,100 | \$30,000 | \$39,000 |
| MG01-4 | Daly Gulch To Lake Creek | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 2,500 | LF | \$45 | \$110,000 | \$68,000 | \$34,000 | \$220,000 |
| MG01-5 | Lake Creek To Revenue Gulch | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 800 | LF | \$100 | \$84,000 | \$50,000 | \$25,000 | \$160,000 |
| MG01-5 | Lake Creek To Revenue Gulch | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 26,000 | SF | \$1.18 | \$31,000 | \$19,000 | \$5,400 | \$55,000 |
| MG01-5 | Lake Creek To Revenue Gulch | Bioengineering Actions | Current Deflector Average Cost | 6 | EA | \$1,700 | \$10,000 | \$6,300 | \$3,100 | \$20,000 |
| MG01-5 | Lake Creek To Revenue Gulch | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 800 | LF | \$45 | \$36,000 | \$22,000 | \$11,000 | \$69,000 |
| MG01-5 | Lake Creek To Revenue Gulch | Bioengineering Actions | Current Deflector Sediment Traps | 1 | EA | \$1,700 | \$1,700 | \$1,000 | \$10,000 | \$13,000 |
| MG01-6 | Revenue Gulch To Dry Gulch | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 390,000 | SF | \$1.18 | \$460,000 | \$270,000 | \$80,000 | \$810,000 |
| MG01-6 | Revenue Gulch To Dry Gulch | Bioengineering Actions | Current Deflector Average Cost | 34 | EA | \$1,700 | \$59,000 | \$35,000 | \$18,000 | \$110,000 |
| MG01-6 | Revenue Gulch To Dry Gulch | Bioengineering Actions | Off-Channel Hydrologic Feature Average Cost | 22,000 | SY | \$37 | \$820,000 | \$490,000 | \$140,000 | \$1,500,000 |
| MG01-6 | Revenue Gulch To Dry Gulch | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 3,200 | LF | \$100 | \$330,000 | \$200,000 | \$99,000 | \$630,000 |
| MG01-6 | Revenue Gulch To Dry Gulch | Bioengineering Actions | Current Deflector Sediment Traps | 4 | EA | \$1,700 | \$7,000 | \$4,200 | \$40,000 | \$51,000 |
| MG01-6 | Revenue Gulch To Dry Gulch | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 3,200 | LF | \$45 | \$140,000 | \$86,000 | \$43,000 | \$270,000 |
| MG01-7 | Dry Gulch To West End Osburn Tailings Pond | Bioengineering Actions | Current Deflector Average Cost | 9 | EA | \$1,700 | \$16,000 | \$9,400 | \$4,700 | \$30,000 |

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Table 14
Estimated Costs For Ecological Alternative 3
South Fork Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|-----------|--|------------------------|---|----------|------|------------------------------------|-------------------------------|---------------------------------|--------------------|----------------------|
| MG01-7 | Dry Gulch To West End Osburn Tailings Pond | Bioengineering Actions | Off-Channel Hydrologic Feature Average Cost | 23,000 | SY | \$37 | \$860,000 | \$510,000 | \$150,000 | \$1,500,000 |
| MG01-7 | Dry Gulch To West End Osburn Tailings Pond | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 330,000 | SF | \$1.18 | \$390,000 | \$230,000 | \$68,000 | \$690,000 |
| MG01-7 | Dry Gulch To West End Osburn Tailings Pond | Bioengineering Actions | Current Deflector Sediment Traps | 1 | EA | \$1,700 | \$1,700 | \$1,000 | \$10,000 | \$13,000 |
| MG01-7 | Dry Gulch To West End Osburn Tailings Pond | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 3,600 | LF | \$45 | \$160,000 | \$97,000 | \$48,000 | \$310,000 |
| MG01-7 | Dry Gulch To West End Osburn Tailings Pond | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 3,600 | LF | \$100 | \$370,000 | \$220,000 | \$110,000 | \$710,000 |
| MG01-8 | West End Tailings Ponds To Twomile Creek | Bioengineering Actions | Current Deflector Average Cost | 21 | EA | \$1,700 | \$37,000 | \$22,000 | \$11,000 | \$69,000 |
| MG01-8 | West End Tailings Ponds To Twomile Creek | Bioengineering Actions | Off-Channel Hydrologic Feature Average Cost | 85,000 | SY | \$37 | \$3,100,000 | \$1,900,000 | \$550,000 | \$5,500,000 |
| MG01-8 | West End Tailings Ponds To Twomile Creek | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 13,000 | SF | \$1.18 | \$16,000 | \$9,500 | \$2,800 | \$28,000 |
| MG01-8 | West End Tailings Ponds To Twomile Creek | Bioengineering Actions | Current Deflector Sediment Traps | 2 | EA | \$1,700 | \$3,500 | \$2,100 | \$20,000 | \$26,000 |
| MG01-8 | West End Tailings Ponds To Twomile Creek | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 2,300 | LF | \$45 | \$110,000 | \$64,000 | \$32,000 | \$200,000 |
| MG01-8 | West End Tailings Ponds To Twomile Creek | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 2,300 | LF | \$100 | \$250,000 | \$150,000 | \$74,000 | \$470,000 |
| MG01-8 | West End Tailings Ponds To Twomile Creek | Bioengineering Actions | Channel Realignment | 31,000 | SY | \$37 | \$1,100,000 | \$690,000 | \$200,000 | \$2,000,000 |
| MG01-9 | Twomile Creek To W.f. Rosebud Creek | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 230,000 | SF | \$1.18 | \$270,000 | \$160,000 | \$47,000 | \$480,000 |
| MG01-9 | Twomile Creek To W.f. Rosebud Creek | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 560 | LF | \$45 | \$25,000 | \$15,000 | \$7,600 | \$48,000 |
| MG01-9 | Twomile Creek To W.f. Rosebud Creek | Bioengineering Actions | Current Deflector Sediment Traps | 1 | EA | \$1,700 | \$1,700 | \$1,000 | \$10,000 | \$13,000 |
| MG01-9 | Twomile Creek To W.f. Rosebud Creek | Bioengineering Actions | Channel Realignment | 7,400 | SY | \$37 | \$270,000 | \$160,000 | \$48,000 | \$480,000 |
| MG01-9 | Twomile Creek To W.f. Rosebud Creek | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 560 | LF | \$100 | \$58,000 | \$35,000 | \$17,000 | \$110,000 |
| MG01-9 | Twomile Creek To W.f. Rosebud Creek | Bioengineering Actions | Current Deflector Average Cost | 5 | EA | \$1,700 | \$8,700 | \$5,200 | \$2,600 | \$17,000 |
| MG02-10 | Bear Creek Confluence To Mcphee Gulch Confluence | Bioengineering Actions | Current Deflector Average Cost | 11 | EA | \$1,700 | \$19,000 | \$11,000 | \$5,700 | \$36,000 |

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Table 14
Estimated Costs For Ecological Alternative 3
South Fork Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|-----------|--|------------------------|---|----------|------|--|-------------------------------------|---------------------------------------|-----------------------|-------------------------|
| MG02-10 | Bear Creek Confluence To Mcphee Gulch Confluence | Bioengineering Actions | Current Deflector Sediment Traps | 1 | EA | \$1,700 | \$1,700 | \$1,000 | \$10,000 | \$13,000 |
| MG02-10 | Bear Creek Confluence To Mcphee Gulch Confluence | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 62 | LF | \$100 | \$6,500 | \$3,900 | \$1,900 | \$12,000 |
| MG02-10 | Bear Creek Confluence To Mcphee Gulch Confluence | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 120 | LF | \$45 | \$5,600 | \$3,400 | \$1,700 | \$11,000 |
| MG02-11 | Mcphee Gulch To Unnamed Tributary Approx. 50ft From | Bioengineering Actions | Current Deflector Sediment Traps | 1 | EA | \$1,700 | \$1,700 | \$1,000 | \$10,000 | \$13,000 |
| MG02-11 | Mcphee Gulch To Unnamed Tributary Approx. 50ft From | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 55 | LF | \$100 | \$5,700 | \$3,400 | \$1,700 | \$11,000 |
| MG02-11 | Mcphee Gulch To Unnamed Tributary Approx. 50ft From | Bioengineering Actions | Current Deflector Average Cost | 4 | EA | \$1,700 | \$7,000 | \$4,200 | \$2,100 | \$13,000 |
| MG02-11 | Mcphee Gulch To Unnamed Tributary Approx. 50ft From | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 110 | LF | \$45 | \$5,000 | \$3,000 | \$1,500 | \$9,400 |
| MG02-12 | Unnamed Tributary 50ft From Confluence To North Fork | Bioengineering Actions | Vegetative Bank Stabilization - Average Cost | 7.7 | LF | \$45 | \$350 | \$210 | \$110 | \$670 |
| MG02-12 | Unnamed Tributary 50ft From Confluence To North Fork | Bioengineering Actions | Bank Stabilization via Revetments - Average Cost | 15 | LF | \$100 | \$1,600 | \$940 | \$470 | \$3,000 |
| MG02-12 | Unnamed Tributary 50ft From Confluence To North Fork | Bioengineering Actions | Current Deflector Average Cost | 1 | EA | \$1,700 | \$1,700 | \$1,000 | \$520 | \$3,300 |
| MG02-12 | Unnamed Tributary 50ft From Confluence To North Fork | Bioengineering Actions | Floodplain and Riparian Replanting - Average Cost | 1,500 | SF | \$1.18 | \$1,800 | \$1,100 | \$320 | \$3,200 |
| MUL085 | Vienna International Mine | Upland Waste Rock | Low Perm Cap w/Seepage Coll & Trmt | 0.37 | AC | \$210,000 | \$79,000 | \$48,000 | \$18,000 | \$140,000 |
| MUL085 | Vienna International Mine | Upland Waste Rock | Excavation | 200 | CY | \$3.40 | \$680 | \$410 | \$0 | \$1,100 |
| MUL086 | Wibberding-golden Slipper Mines | Upland Waste Rock | Excavation | 6,000 | CY | \$3.40 | \$20,000 | \$12,000 | \$0 | \$33,000 |
| MUL086 | Wibberding-golden Slipper Mines | Upland Waste Rock | Low Permeability Cap | 1.3 | AC | \$190,000 | \$240,000 | \$140,000 | \$30,000 | \$410,000 |
| OSB025 | Capitol Silver-lead: No. 3 | Upland Waste Rock | Low Permeability Cap | 0.50 | AC | \$190,000 | \$95,000 | \$57,000 | \$12,000 | \$160,000 |
| OSB025 | Capitol Silver-lead: No. 3 | Upland Waste Rock | Excavation | 2,400 | CY | \$3.40 | \$8,200 | \$4,900 | \$0 | \$13,000 |
| OSB030 | Silverton Prospect Upper Adit | Upland Waste Rock | Excavation | 40 | CY | \$3.40 | \$140 | \$82 | \$0 | \$220 |
| OSB030 | Silverton Prospect Upper Adit | Upland Waste Rock | Low Permeability Cap | 0.45 | AC | \$190,000 | \$86,000 | \$51,000 | \$11,000 | \$150,000 |

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Table 14
Estimated Costs For Ecological Alternative 3
South Fork Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|-----------|--|----------------------|---------------------------------------|----------|------|--|-------------------------------------|---------------------------------------|-----------------------|-------------------------|
| OSB065 | Sf Cda River Impacted Floodplain: No. 3 | Floodplain Sediments | Regional Repository | 430,000 | CY | \$11 | \$4,800,000 | \$2,900,000 | \$950,000 | \$8,600,000 |
| OSB065 | Sf Cda River Impacted Floodplain: No. 3 | Floodplain Sediments | Sediment Excavation | 430,000 | CY | \$13 | \$5,500,000 | \$3,300,000 | \$0 | \$8,700,000 |
| OSB065 | Sf Cda River Impacted Floodplain: No. 3 | Groundwater | Media Filter Treatment Plant | 1,100 | GPM | \$1,500 | \$1,700,000 | \$1,300,000 | \$3,400,000 | \$6,400,000 |
| OSB065 | Sf Cda River Impacted Floodplain: No. 3 | Floodplain Sediments | Hydraulic Isolation Using Slurry Wall | 22,000 | LF | \$350 | \$7,800,000 | \$4,700,000 | \$3,100,000 | \$16,000,000 |
| OSB070 | Silverore-inspiration Mine | Upland Waste Rock | Low Permeability Cap | 1.3 | AC | \$190,000 | \$250,000 | \$150,000 | \$31,000 | \$430,000 |
| OSB070 | Silverore-inspiration Mine | Upland Waste Rock | Excavation | 6,200 | CY | \$3.40 | \$21,000 | \$13,000 | \$0 | \$34,000 |
| OSB072 | Western Union Upper Adit | Upland Waste Rock | Excavation | 40 | CY | \$3.40 | \$140 | \$82 | \$0 | \$220 |
| OSB072 | Western Union Upper Adit | Upland Waste Rock | Low Permeability Cap | 0.23 | AC | \$190,000 | \$44,000 | \$26,000 | \$5,500 | \$75,000 |
| OSB073 | Silverton Prospect Lower Adit | Upland Waste Rock | Low Permeability Cap | 0.58 | AC | \$190,000 | \$110,000 | \$66,000 | \$14,000 | \$190,000 |
| OSB073 | Silverton Prospect Lower Adit | Upland Waste Rock | Excavation | 4,400 | CY | \$3.40 | \$15,000 | \$9,000 | \$0 | \$24,000 |
| OSB074 | St. Joe No.1 | Adit Drainage | Adit Drainage Collection | 1 | LS | \$7,800 | \$7,800 | \$4,700 | \$1,400 | \$14,000 |
| OSB074 | St. Joe No.1 | Adit Drainage | Permeable Reactive Trench | 10 | CY | \$550 | \$5,500 | \$3,300 | \$33,000 | \$42,000 |
| OSB075 | Unnamed Adit | Upland Waste Rock | Low Permeability Cap | 0.28 | AC | \$190,000 | \$53,000 | \$32,000 | \$6,700 | \$92,000 |
| OSB075 | Unnamed Adit | Upland Waste Rock | Excavation | 40 | CY | \$3.40 | \$140 | \$82 | \$0 | \$220 |
| OSB076 | Unnamed Adit (may Claim) | Upland Waste Rock | Low Permeability Cap | 0.20 | AC | \$190,000 | \$38,000 | \$23,000 | \$4,800 | \$66,000 |
| OSB076 | Unnamed Adit (may Claim) | Upland Waste Rock | Excavation | 40 | CY | \$3.40 | \$140 | \$82 | \$0 | \$220 |
| OSB078 | Unnamed Adit (hardscrabble Claim) | Upland Waste Rock | Low Permeability Cap | 0.080 | AC | \$190,000 | \$15,000 | \$9,100 | \$1,900 | \$26,000 |
| OSB078 | Unnamed Adit (hardscrabble Claim) | Upland Waste Rock | Excavation | 40 | CY | \$3.40 | \$140 | \$82 | \$0 | \$220 |
| OSB117 | Osburn Zanetti Stockpiled Tailings | Floodplain Tailings | Excavation | 14,000 | CY | \$3.40 | \$48,000 | \$29,000 | \$0 | \$76,000 |

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Table 14
Estimated Costs For Ecological Alternative 3
South Fork Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|-----------|---|----------------------|---------------------------------------|-----------|-------|--|-------------------------------------|---------------------------------------|-----------------------|-------------------------|
| OSB117 | Osburn Zanetti Stockpiled Tailings | Floodplain Tailings | Local Repository Above Flood Level | 14,000 | CY | \$12 | \$170,000 | \$100,000 | \$38,000 | \$310,000 |
| OSB118 | Osburn North Tailings Area | Floodplain Sediments | Sediment Excavation | 60,000 | CY | \$13 | \$760,000 | \$450,000 | \$0 | \$1,200,000 |
| OSB118 | Osburn North Tailings Area | Floodplain Sediments | Regional Repository | 60,000 | CY | \$11 | \$660,000 | \$390,000 | \$130,000 | \$1,200,000 |
| OSB119 | Osburn Zanetti Gravel Operation | Floodplain Sediments | Hydraulic Isolation Using Slurry Wall | 7,000 | LF | \$350 | \$2,500,000 | \$1,500,000 | \$990,000 | \$4,900,000 |
| OSB119 | Osburn Zanetti Gravel Operation | Groundwater | Media Filter Treatment Plant | 45 | GPM | \$1,500 | \$67,000 | \$50,000 | \$130,000 | \$250,000 |
| OSB120 | Sf Cda River Impacted Floodplain: No. 4 | Floodplain Sediments | Sediment Excavation | 290,000 | CY | \$13 | \$3,600,000 | \$2,200,000 | \$0 | \$5,800,000 |
| OSB120 | Sf Cda River Impacted Floodplain: No. 4 | Floodplain Sediments | Hydraulic Isolation Using Slurry Wall | 14,000 | LF | \$350 | \$4,900,000 | \$3,000,000 | \$2,000,000 | \$9,900,000 |
| OSB120 | Sf Cda River Impacted Floodplain: No. 4 | Groundwater | Media Filter Treatment Plant | 730 | GPM | \$1,500 | \$1,100,000 | \$820,000 | \$2,200,000 | \$4,100,000 |
| OSB120 | Sf Cda River Impacted Floodplain: No. 4 | Floodplain Sediments | Regional Repository | 290,000 | CY | \$11 | \$3,200,000 | \$1,900,000 | \$630,000 | \$5,700,000 |
| PIPEMG01 | Pipeline To Active Treatment | General | Conveyance Pipeline-24" | 53,000 | LF | \$120 | \$6,200,000 | \$3,700,000 | \$470,000 | \$10,000,000 |
| PIPEMG02 | Pipeline To Active Treatment | General | Conveyance Pipeline-24" | 35,000 | LF | \$120 | \$4,200,000 | \$2,500,000 | \$310,000 | \$7,000,000 |
| POL018 | Merger Mine | Upland Waste Rock | Low Permeability Cap | 0.91 | AC | \$190,000 | \$170,000 | \$100,000 | \$22,000 | \$300,000 |
| POL018 | Merger Mine | Upland Waste Rock | Excavation | 4,400 | CY | \$3.40 | \$15,000 | \$9,000 | \$0 | \$24,000 |
| POL019 | Coeur D Alene Mine | Upland Waste Rock | Low Permeability Cap w/Erosion Prot'n | 7.5 | AC | \$210,000 | \$1,600,000 | \$960,000 | \$360,000 | \$2,900,000 |
| POL021 | Eclipse Mine | Upland Waste Rock | Low Permeability Cap | 0.66 | AC | \$190,000 | \$130,000 | \$75,000 | \$16,000 | \$220,000 |
| POL021 | Eclipse Mine | Upland Waste Rock | Excavation | 40 | CY | \$3.40 | \$140 | \$82 | \$0 | \$220 |
| POL064 | Unnamed Adit | Upland Waste Rock | Low Permeability Cap | 0.20 | AC | \$190,000 | \$38,000 | \$23,000 | \$4,800 | \$66,000 |
| POL064 | Unnamed Adit | Upland Waste Rock | Excavation | 40 | CY | \$3.40 | \$140 | \$82 | \$0 | \$220 |
| RHAULMG01 | Hauling To Regional Repository | General | Haul to Regional Repository | 2,400,000 | CY-MI | \$1.12 | \$2,700,000 | \$1,600,000 | \$0 | \$4,300,000 |

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Table 14
Estimated Costs For Ecological Alternative 3
South Fork Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|-----------|--|-----------------------|---------------------------------------|-----------|-------|--|-------------------------------------|---------------------------------------|-----------------------|-------------------------|
| RHAULMG02 | Hauling To Regional Repository | General | Haul to Regional Repository | 3,200,000 | CY-MI | \$1.12 | \$3,600,000 | \$2,100,000 | \$0 | \$5,700,000 |
| WAL001 | Osburn Tailings Ponds | Groundwater | Media Filter Treatment Plant | 90 | GPM | \$1,500 | \$130,000 | \$100,000 | \$270,000 | \$500,000 |
| WAL001 | Osburn Tailings Ponds | Upland Tailings | Hydraulic Isolation Using Slurry Wall | 1 | LF | \$350 | \$350 | \$210 | \$140 | \$710 |
| WAL001 | Osburn Tailings Ponds | Floodplain Sediments | Hydraulic Isolation Using Slurry Wall | 8,400 | LF | \$350 | \$3,000,000 | \$1,800,000 | \$1,200,000 | \$5,900,000 |
| WAL002 | Western Union Lower Adit | Adit Drainage | Permeable Reactive Trench | 10 | CY | \$550 | \$5,500 | \$3,300 | \$33,000 | \$42,000 |
| WAL002 | Western Union Lower Adit | Floodplain Waste Rock | Low Permeability Cap | 0.87 | AC | \$190,000 | \$170,000 | \$99,000 | \$21,000 | \$290,000 |
| WAL002 | Western Union Lower Adit | Adit Drainage | Adit Drainage Collection | 1 | LS | \$7,800 | \$7,800 | \$4,700 | \$1,400 | \$14,000 |
| WAL002 | Western Union Lower Adit | Floodplain Waste Rock | Excavation | 40 | CY | \$3.40 | \$140 | \$82 | \$0 | \$220 |
| WAL004 | Sf Cda River Railroad Yards & Imp Fldp | Floodplain Sediments | Regional Repository | 110,000 | CY | \$11 | \$1,200,000 | \$720,000 | \$240,000 | \$2,100,000 |
| WAL004 | Sf Cda River Railroad Yards & Imp Fldp | Groundwater | Media Filter Treatment Plant | 440 | GPM | \$1,500 | \$660,000 | \$500,000 | \$1,300,000 | \$2,500,000 |
| WAL004 | Sf Cda River Railroad Yards & Imp Fldp | Floodplain Sediments | Sediment Excavation | 110,000 | CY | \$13 | \$1,400,000 | \$820,000 | \$0 | \$2,200,000 |
| WAL004 | Sf Cda River Railroad Yards & Imp Fldp | Floodplain Sediments | Hydraulic Isolation Using Slurry Wall | 8,500 | LF | \$350 | \$3,000,000 | \$1,800,000 | \$1,200,000 | \$6,000,000 |
| WAL014 | St. Elmo Mine | Upland Waste Rock | Low Permeability Cap | 1.6 | AC | \$190,000 | \$310,000 | \$180,000 | \$38,000 | \$530,000 |
| WAL014 | St. Elmo Mine | Upland Waste Rock | Excavation | 7,800 | CY | \$3.40 | \$27,000 | \$16,000 | \$0 | \$42,000 |
| WAL016 | Argentine Mine | Upland Waste Rock | Local Repository Above Flood Level | 200 | CY | \$12 | \$2,400 | \$1,500 | \$550 | \$4,500 |
| WAL016 | Argentine Mine | Upland Waste Rock | Excavation | 200 | CY | \$3.40 | \$680 | \$410 | \$0 | \$1,100 |
| WAL020 | Caladay Mine | Upland Waste Rock | Excavation | 70,000 | CY | \$3.40 | \$240,000 | \$140,000 | \$0 | \$380,000 |
| WAL020 | Caladay Mine | Adit Drainage | Permeable Reactive Trench | 10 | CY | \$550 | \$5,500 | \$3,300 | \$33,000 | \$42,000 |
| WAL020 | Caladay Mine | Adit Drainage | Adit Drainage Collection | 1 | LS | \$7,800 | \$7,800 | \$4,700 | \$1,400 | \$14,000 |

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Table 14
Estimated Costs For Ecological Alternative 3
South Fork Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|-----------|-------------------------------------|-----------------------|------------------------------------|----------|------|--|-------------------------------------|---------------------------------------|-----------------------|-------------------------|
| WAL020 | Caladay Mine | Upland Waste Rock | Low Permeability Cap | 5.8 | AC | \$190,000 | \$1,100,000 | \$660,000 | \$140,000 | \$1,900,000 |
| WAL024 | War Eagle Mine | Upland Waste Rock | Excavation | 40 | CY | \$3.40 | \$140 | \$82 | \$0 | \$220 |
| WAL024 | War Eagle Mine | Upland Waste Rock | Low Permeability Cap | 0.43 | AC | \$190,000 | \$82,000 | \$49,000 | \$10,000 | \$140,000 |
| WAL034 | Shields Gulch Impacted Riparian | Floodplain Sediments | Sediment Excavation | 39,000 | CY | \$13 | \$490,000 | \$290,000 | \$0 | \$790,000 |
| WAL034 | Shields Gulch Impacted Riparian | Floodplain Sediments | Regional Repository | 39,000 | CY | \$11 | \$430,000 | \$260,000 | \$86,000 | \$770,000 |
| WAL035 | Osburn Rockpit Along I-90: No. 2 | Floodplain Waste Rock | Excavation | 28,000 | CY | \$3.40 | \$95,000 | \$57,000 | \$0 | \$150,000 |
| WAL035 | Osburn Rockpit Along I-90: No. 2 | Floodplain Waste Rock | Low Permeability Cap | 5.9 | AC | \$190,000 | \$1,100,000 | \$670,000 | \$140,000 | \$1,900,000 |
| WAL036 | Lake Ck Impacted Riparian | Floodplain Sediments | Local Repository Above Flood Level | 23,000 | CY | \$12 | \$270,000 | \$160,000 | \$62,000 | \$500,000 |
| WAL036 | Lake Ck Impacted Riparian | Floodplain Sediments | Sediment Excavation | 23,000 | CY | \$13 | \$280,000 | \$170,000 | \$0 | \$450,000 |
| WAL037 | Hercules Millsite | Upland Tailings | Local Repository Above Flood Level | 12,000 | CY | \$12 | \$150,000 | \$88,000 | \$33,000 | \$270,000 |
| WAL037 | Hercules Millsite | Upland Tailings | Excavation | 12,000 | CY | \$3.40 | \$41,000 | \$24,000 | \$0 | \$65,000 |
| WAL046 | Day Mines Claims | Upland Waste Rock | Low Permeability Cap | 0.26 | AC | \$190,000 | \$49,000 | \$30,000 | \$6,200 | \$85,000 |
| WAL046 | Day Mines Claims | Upland Waste Rock | Excavation | 40 | CY | \$3.40 | \$140 | \$82 | \$0 | \$220 |
| WAL055 | Unnamed Adit | Upland Waste Rock | Low Permeability Cap | 0.17 | AC | \$190,000 | \$32,000 | \$19,000 | \$4,000 | \$56,000 |
| WAL055 | Unnamed Adit | Upland Waste Rock | Excavation | 40 | CY | \$3.40 | \$140 | \$82 | \$0 | \$220 |
| WAL056 | Peerless Group (osceola) | Upland Waste Rock | Excavation | 40 | CY | \$3.40 | \$140 | \$82 | \$0 | \$220 |
| WAL056 | Peerless Group (osceola) | Upland Waste Rock | Low Permeability Cap | 0.24 | AC | \$190,000 | \$46,000 | \$27,000 | \$5,700 | \$79,000 |
| WAL057 | Peerless Group | Upland Waste Rock | Low Permeability Cap | 0.100 | AC | \$190,000 | \$19,000 | \$11,000 | \$2,400 | \$33,000 |
| WAL057 | Peerless Group | Upland Waste Rock | Excavation | 40 | CY | \$3.40 | \$140 | \$82 | \$0 | \$220 |

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Table 14
Estimated Costs For Ecological Alternative 3
South Fork Watershed

| Source ID | Site Name | Waste Type | Description | Quantity | Unit | Escalated Unit Direct Capital Cost | Escalated Direct Capital Cost | Escalated Indirect Capital Cost | Escalated O&M Cost | Escalated Total Cost |
|---------------------------------------|--------------|-------------------|----------------------|----------|------|--|-------------------------------------|---------------------------------------|-----------------------|-------------------------|
| WAL058 | Unnamed Adit | Upland Waste Rock | Low Permeability Cap | 0.090 | AC | \$190,000 | \$17,000 | \$10,000 | \$2,100 | \$30,000 |
| WAL058 | Unnamed Adit | Upland Waste Rock | Excavation | 40 | CY | \$3.40 | \$140 | \$82 | \$0 | \$220 |
| WAL062 | Unnamed Adit | Upland Waste Rock | Low Permeability Cap | 0.19 | AC | \$190,000 | \$36,000 | \$22,000 | \$4,500 | \$62,000 |
| WAL062 | Unnamed Adit | Upland Waste Rock | Excavation | 40 | CY | \$3.40 | \$140 | \$82 | \$0 | \$220 |
| WAL064 | Unnamed Adit | Upland Waste Rock | Low Permeability Cap | 0.35 | AC | \$190,000 | \$67,000 | \$40,000 | \$8,300 | \$110,000 |
| WAL064 | Unnamed Adit | Upland Waste Rock | Excavation | 40 | CY | \$3.40 | \$140 | \$82 | \$0 | \$220 |
| WAL072 | Unnamed Adit | Upland Waste Rock | Low Permeability Cap | 0.080 | AC | \$190,000 | \$15,000 | \$9,100 | \$1,900 | \$26,000 |
| WAL072 | Unnamed Adit | Upland Waste Rock | Excavation | 40 | CY | \$3.40 | \$140 | \$82 | \$0 | \$220 |
| WAL073 | Unnamed Adit | Upland Waste Rock | Excavation | 40 | CY | \$3.40 | \$140 | \$82 | \$0 | \$220 |
| WAL073 | Unnamed Adit | Upland Waste Rock | Low Permeability Cap | 0.100 | AC | \$190,000 | \$19,000 | \$11,000 | \$2,400 | \$33,000 |
| Totals for South Fork Watershed . . . | | | | | | | \$130,000,000 | \$79,000,000 | \$31,000,000 | \$240,000,000 |

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Table 15. Estimated Costs for the Spokane River
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| Description | Unit | Quantity | Unit Cost (2000) | Escalated Unit Cost (2006) | Escalated Direct Capital Cost | Escalated Indirect Capital Cost ^a | Escalated O&M Cost (30 Yr. Present Worth) | Escalated Total Cost |
|-------------------------------|-------|----------|---------------------|----------------------------------|-------------------------------------|--|--|-------------------------|
| LOWER RANGE ESTIMATE | | | | | | | | |
| Shoreline Sites | | | | | | | | |
| Access restrictions (gates) | ea | 2 | \$2,000 | \$2,520 | \$5,040 | \$3,024 | \$2,520 | \$10,584 |
| Granular cap | ac | 3.5 | \$58,080 | \$73,181 | \$256,133 | \$153,680 | \$38,420 | \$448,232 |
| Excavate | cy | 8,380 | \$2.70 | \$3.40 | \$28,509 | \$17,106 | \$0 | \$45,615 |
| Backfill | cy | 8,380 | \$18.00 | \$22.68 | \$190,058 | \$114,035 | \$0 | \$304,093 |
| Consolidate/cap on site | ac | 2 | \$28,575 | \$36,005 | \$72,009 | \$43,205 | \$10,801 | \$126,015 |
| Disposal (Subtitle D) | cy | 1,980 | \$36.40 | \$45.86 | \$90,811 | \$0 | \$0 | \$90,811 |
| Haul to landfill | cy-mi | 59,400 | \$0.63 | \$0.79 | \$47,152 | \$28,067 | \$0 | \$75,218 |
| Revegetation | ac | 1 | \$41,000 | \$51,660 | \$51,660 | \$30,996 | \$0 | \$82,656 |
| Bank stabilization | lf | 400 | \$36.41 | \$45.88 | \$18,351 | \$11,010 | \$5,505 | \$34,865 |
| Upriver Dam | | | | | | | | |
| Granular sediment cap | ac | 17 | \$82,280.00 | \$103,673 | \$1,762,438 | \$1,057,463 | \$528,731 | \$3,348,631 |
| Monitoring | | | | | | | | |
| Beach monitoring | ls | 1 | \$0 | \$0 | \$0 | \$0 | \$529,200 | \$529,200 |
| Surface water monitoring | ls | 1 | \$0 | \$0 | \$0 | \$0 | \$592,200 | \$592,200 |
| TOTAL LOWER RANGE COST | | | | | \$2,500,000 | \$1,500,000 | \$1,700,000 | \$5,700,000 |

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Table 15. Estimated Costs for the Spokane River
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| Description | Unit | Quantity | Unit Cost (2000) | Escalated Unit Cost (2006) | Escalated Direct Capital Cost | Escalated Indirect Capital Cost ^a | Escalated O&M Cost (30 Yr. Present Worth) | Escalated Total Cost |
|--|-------|-----------|---------------------|----------------------------------|-------------------------------------|--|--|-------------------------|
| UPPER RANGE ESTIMATE | | | | | | | | |
| Shoreline Sites | | | | | | | | |
| Excavate | cy | 28,000 | \$2.70 | \$3.40 | \$95,256 | \$57,154 | \$0 | \$152,410 |
| Backfill | cy | 28,000 | \$18.00 | \$22.68 | \$635,040 | \$381,024 | \$0 | \$1,016,064 |
| Disposal (Subtitle D) | cy | 28,000 | \$36.40 | \$45.86 | \$1,284,192 | \$0 | \$0 | \$1,284,192 |
| Haul to landfill | cy-mi | 840,000 | \$0.63 | \$0.79 | \$666,792 | \$396,900 | \$0 | \$1,063,692 |
| Revegetation | ac | 2 | \$41,000 | \$51,660 | \$103,320 | \$61,992 | \$0 | \$165,312 |
| Beach monitoring | ls | 1 | \$0 | \$0 | \$0 | \$0 | \$529,200 | \$529,200 |
| Surface water monitoring | ls | 1 | \$0 | \$0 | \$0 | \$0 | \$592,200 | \$592,200 |
| Upriver Dam | | | | | | | | |
| Hydraulic dredge/pipeline/dewater | cy | 82,000 | \$6.59 | \$8.30 | \$680,879 | \$408,527 | \$0 | \$1,089,406 |
| Disposal (Subtitle D) | cy | 82,000 | \$36.40 | \$45.86 | \$3,760,848 | \$0 | \$0 | \$3,760,848 |
| Haul to landfill | cy-mi | 2,460,000 | \$0.63 | \$0.79 | \$1,952,748 | \$1,162,350 | \$0 | \$3,115,098 |
| Monitoring | ls | 1 | \$0.00 | \$0 | \$0 | \$0 | \$504,000 | \$504,000 |
| TOTAL UPPER RANGE COST ESTIMATE^b | | | | | \$9,200,000 | \$2,500,000 | \$1,600,000 | \$13,300,000 |

^aAssumed at 60% of direct capital cost. No indirect costs assumed for disposal fee.

^bTotal costs rounded to two significant figures.

Notes:

ac - acre

cy - cubic yard

cy-mi - cubic yard-mile

lf - linear foot

ls - lump sum

O&M - operation and maintenance

**Estimated Cleanup Costs for the Coeur d'Alene Basin
Costs Escalated to December 2006 and Pine Creek Costs Excluded
June 8, 2007**

Table 16. Description of Non-Construction Capital Costs

| Cost Component | Elements | Cost as a Percentage of Direct Capital (Construction) Cost | |
|-------------------------|--|--|-----------------------------------|
| | | Direct Capital Cost >\$10,000,000 | Direct Capital Cost <\$100,000 |
| Project Management | Planning Community relations Bid/contract administration Cost and performance reporting Permitting Legal Construction complete report | 5% | 10% |
| Remedial Design | Field data collection and analysis Design survey Treatability studies Preliminary, intermediate, and final design | 6% | 20% |
| Construction Management | Submittal review Change order review Design modifications Construction observation Construction survey Construction schedule tracking QA/QC documentation O&M manual Record drawings | 6% | 15% |

Source: EPA 2000. A Guide to Developing and Documenting Cost Estimates During the Feasibility Study. EPA Document No. 540-R-00-002. Prepared by the U.S. Army Corps of Engineers and the EPA Office of Emergency and Remedial Response. July.